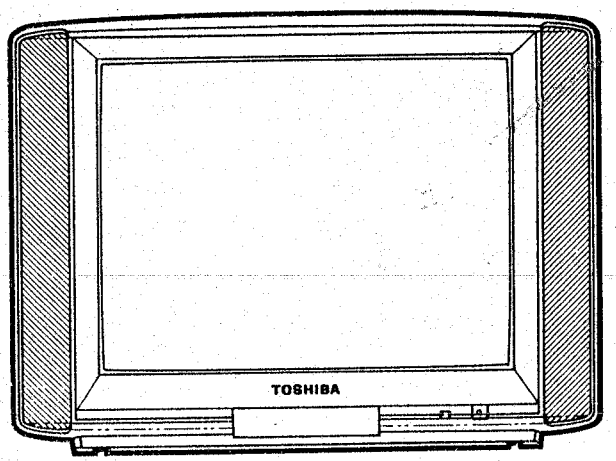
SERVICE DATA
FILE NO. 050-603
9-SYSTEM

TOSHIBA

COLOUR TELEVISION

2927DD:3327DD



SPECIFICATIONS

Input Power Rating:	169 watts (2927DD), 175 watts (3327DD), AC 220 volts, 50 Hz
Aerial Input Impedance:	75 ohm unbalanced type for VHF and UHF
Receiving Channels:	**PAL B/G Standard, SECAM B/G Standard:** VHF ..... channels 2 to 4, 5 to 12, S1 to S20, S21 to S41 UHF ..... channels 21 to 69 **PAL I Standard:** UHF ..... channels 21 to 68 **PAL D/K, SECAM D/K Standard:** VHF ..... channels 1 to 12 UHF ..... channels 21 to 69 **PAL 50 Hz/60 Hz** (For Video Disk playback) **4.43 NTSC** (For VCR playback), **3.58 NTSC** (For VCR playback)
Intermediate Frequencies:	Picture I-F carrier frequency ..... 38.9 MHz Sound I-F carrier frequency ..... 33.4 MHz / 32.9 MHz / 32.4 MHz
Picture Tube:	29 inches, A68KLF96X02, 680 mm (diagonal of viewable picture area) (2927DD) 33 inches, A80EBK221X11, 800 mm (diagonal of viewable picture area) (3327DD), 110° deflection
Sound Output:	8 watts x 2, 13 watts (Woofer)
Speakers:	120 mm x 60 mm oval 2 pcs, 50 mm x 50 mm (Tweeter) 2 pcs, 100 mm x 100 mm (Woofer)
Aux. Terminals:	Headphone Jack, 21 pin socket (FULL and S-VIDEO), S-VIDEO • VIDEO/AUDIO INPUT socket, Monitor OUTPUT socket, External speaker terminal

Dimensions:	(2927DD)	(3327DD)
Height	589 mm	685 mm
Width	800 mm	931 mm
Depth	510 mm	561 mm

Weight:	41 kg (2927DD), 55 kg (3327DD)
Features:	TELETEXT reception, Remote Control, ON/OFF-timer

Specifications are subject to change without notice.

Printed in Japan Mar. 1993 (So)

SAFETY INSTRUCTIONS

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" INSTRUCTIONS BELOW.

X-RAY RADIATION PRECAUTION

1. The E.H.T. must be checked every time the receiver is serviced to ensure that the C.R.T. does not emit X-ray radiation as result of excessive E.H.T. voltage. The nominal E.H.T. for this receiver is 30.5 kV at zero beam current (minimum brightness) operating at 220V a.c. The maximum E.H.T. voltage permissible in any operating circumstances must not exceed 32.0 kV. When checking the E.H.T., use the 'High Voltage Check' procedure in this manual using an accurate E.H.T. voltmeter.
2. The only source of X-RAY radiation in this receiver is the C.R.T. To prevent X-ray radiation, the replacement C.R.T. must be identical to the original fitted as specified in the Parts List.
3. Some components used in this receiver have safety related characteristics preventing the C.R.T. from emitting X-ray radiation.
   For continued safety, replacement component should only be made after referring the Product Safety Notice below.

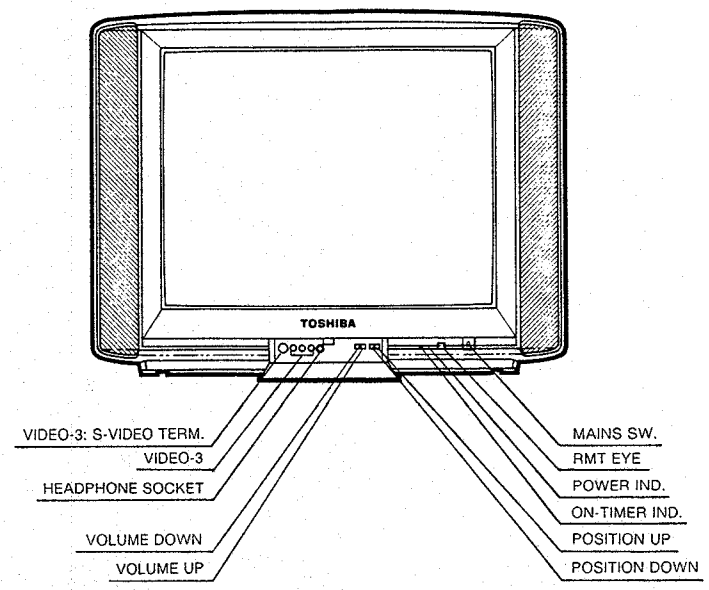
SAFETY PRECAUTION

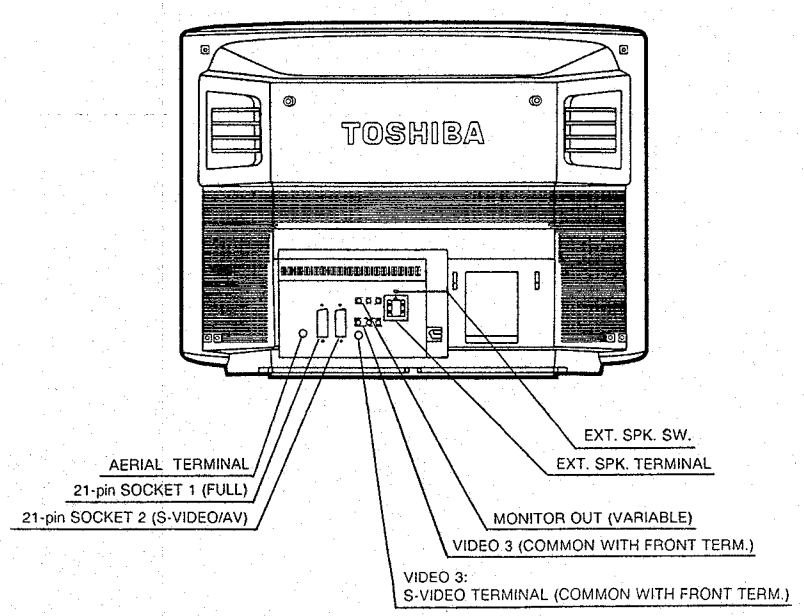
1. This receiver has a nominal working E.H.T. voltage of 28.5 kV. Extreme caution should be exercised when working on the receiver with the back removed.
   Do not attempt to service this receiver if you are not conversant with the precautions and procedures for working on high voltage equipment.
   When handling or working on the C.R.T., always discharge the anode to the receiver chassis before removing the anode cap
   The C.R.T., if broken, will violently expel glass fragments. Use shatter proof goggles and take extreme care while handling.
   Do not hold the C.R.T. by the neck as this is a very dangerous practice.
2. It is essential that to maintain the safety of the customer all cable forms be replaced exactly as supplied from factory.
3. A small part of the chassis used in this receiver is, when operating, at approximately half mains potential at all times. It is therefore essential in the interest of safety that when serving or connecting any test equipment the receiver should be supplied via a suitable isolating transformer of adequate rating.
4. Replace blown fuses within the receiver with the fuse specified in the parts list.
5. When replacing wires or components to terminals or tags, wind the leads around the terminal before soldering. When replacing safety components identified by the international hazard symbols on the circuit diagram and parts list, it must be a Toshiba approved type and must be mounted as the original.
6. Keep wires away from high temperature components.

PRODUCT SAFETY NOTICE

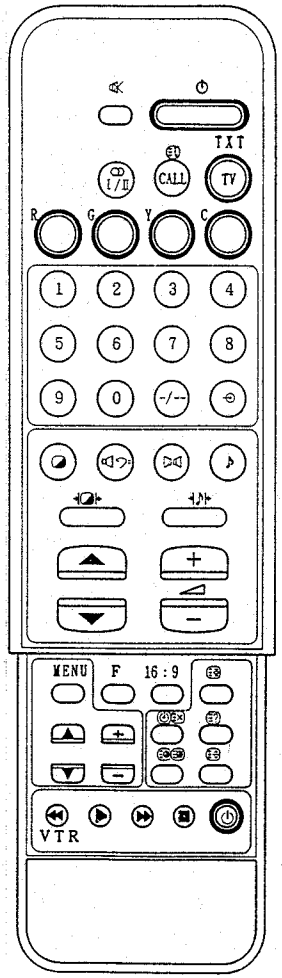
Many electrical and mechanical components in this chassis have special safety-related characteristics. These characteristics are often passed unnoticed by a visual inspection and the X-ray radiation protection afforded by them cannot necessarily be obtained by using replacements rated at higher voltages or wattage, etc. Components which have these special safety characteristics in this manual and its supplements are identified by the international hazard symbols on the schematic diagram and parts list. Before replacing any of these components read the parts list in this manual carefully. Substitute replacement components which do not have the same safety characteristics as specified in the parts list may create X-ray radiation.

FRONT CONTROLS AND REAR VIEWS





REMOTE HAND HELD UNIT



KEY ASSIGNMENT

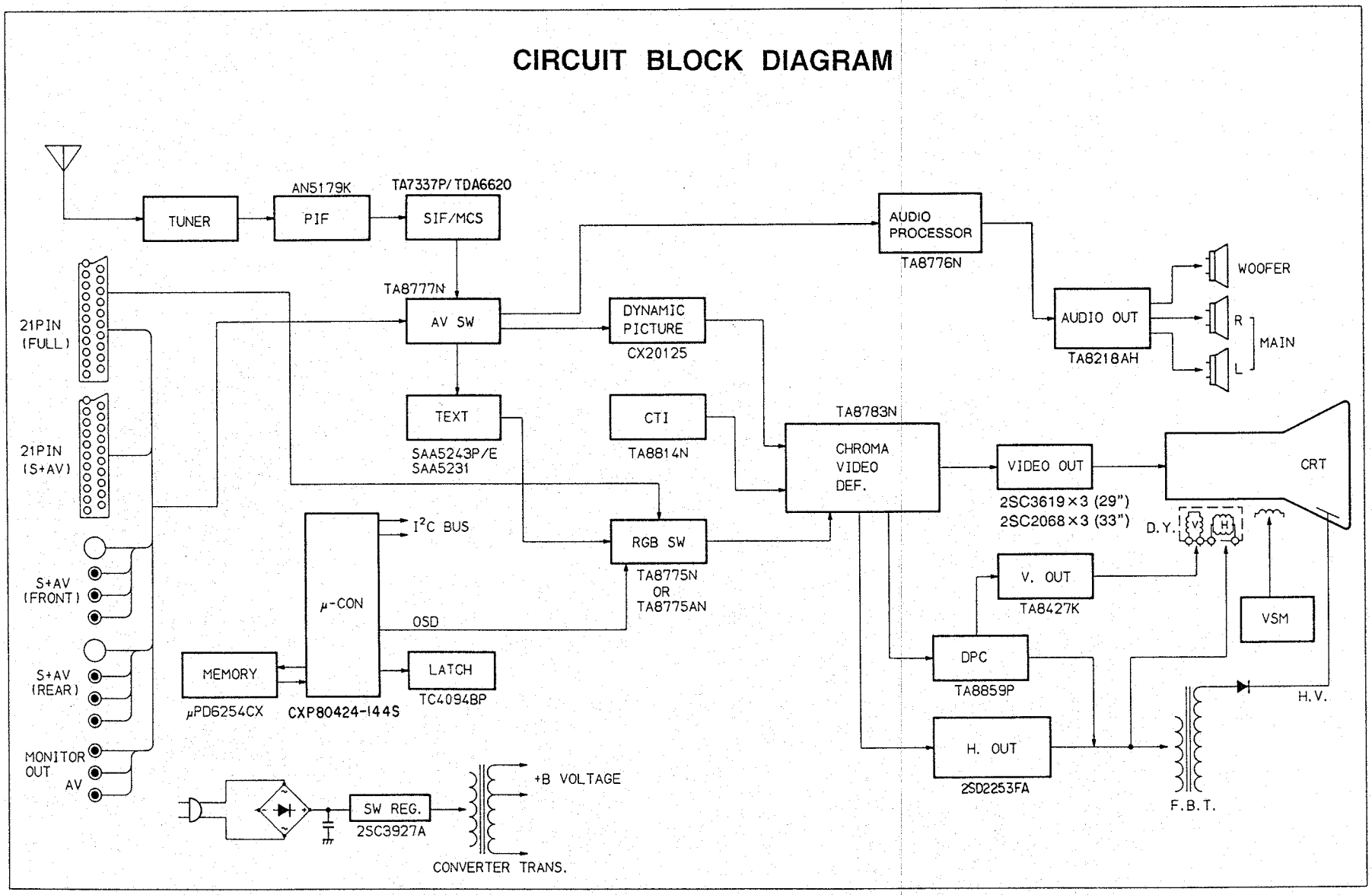
- ⏻ ..... ON STAND-BY
- 🔇 ..... MUTE
- TXT/TV.... TEXT/TV MODE SW.
- CALL ..... INDEX (FASTEXT)/INITIAL (LIST MODE)
  DISPLAY CALL (TV MODE)
- I/II..... NICAM STEREO BILINGUAL
- TEXT COLOUR KEY (4 keys used)
  R ; Red G ; Green Y ; Yellow C ; Cyan
- 1~9, 0 ... TEN KEY -/ - - ... 1 or 2 place
- ..... VIDEO INPUT
- ..... PICTURE CONTROL MENU
- ..... SUPER WOOFER CONTROL MENU
- ..... SURROUND CONTROL MENU
- ♪ ..... SOUND CONTROL MENU
- ..... SELECTABLE PICTURE
- ..... SMC (SOUND MENU CONTROL = SELECTABLE SOUND)
- ..... VOLUME
- \+ ..... LEVEL PLUS [VOLUME & MENU]
- – ..... LEVEL MINUS [VOLUME & MENU]
- ▲ ..... UP (POSI., CH., TEXT PAGE)
- ▼ ..... DOWN (POSI., CH., TEXT PAGE)

OTHER MENU
- MENU ..... MENU PAGE SELECT
- ▲▼ ..... UP/DOWN = EACH MENU SELECT
- \+ – ..... LEVEL CONTROL & MODE SELECT
- F ..... QUICK & SERVICE MODE OPERATION KEY
- 16:9 ..... WIDE (16:9)/NORMAL (4:3) MODE SW.

TELE-TEXT
- ..... HOLD
- ..... REVEAL
- ..... F-T-B (FULL, TOP, BOTTOM)
- ..... TIME DISPLAY/TXCL (TEXT CLEAR)
- ..... TIMED PAGE ON/OFF

VTR
- ⏻ ..... ON STAND-BY ■ ..... STOP
- ▶ ..... PLAY
- ▶▶ ..... FF/CUE ◀◀ ..... REV/REW

CIRCUIT BLOCK DIAGRAM



WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON PAGE 2 OF THIS MANUAL.

INSTALLATION AND SERVICE ADJUSTMENTS

GENERAL INFORMATIONS

All adjustments are thoroughly checked and corrected when the receiver leaves the factory. Therefore the receiver should operate normally and produce proper colour and B/W pictures upon installation. However, several minor adjustments may be required depending on the particular location in which the receiver is operated.

This receiver is shipped completely in cardboard carton. Carefully draw out the receiver from the carton and remove all packing materials. Plug the power cord into a convenient 240 volts 50 Hz AC two pin power outlet. Turn the receiver ON. Check and adjust all the customer controls such as BRIGHTNESS, CONTRAST and COLOUR Controls to obtain natural colour or B/W picture.

AUTOMATIC DEGAUSSING

A degaussing coil is mounted around the picture tube so that external degaussing after moving the receiver is normally unnecessary, providing the receiver is properly degaussed upon installation. The degaussing coil operates for about 1 second after the power to the receiver is switched ON. If the set is moved or faced in a different direction, the power switch must be switched off at least one hour in order that the automatic degaussing circuit operates properly. Should the chassis or parts of the cabinet become magnetized to cause poor colour purity, use an external degaussing coil. Slowly move the degaussing coil around the faceplate of the picture tube, the sides and front of the receiver and slowly withdraw the coil to a distance of about 2 m before disconnecting it from AC source. If colour shading still persists, perform the COLOUR PURITY ADJUSTMENT and CONVERGENCE ADJUSTMENTS procedures.

HIGH VOLTAGE CHECK

CAUTION: There is no HIGH VOLTAGE ADJUSTMENT on this chassis.

1. Connect an accurate high voltage meter to the second anode of the picture tube.
2. Turn on the receiver. Set the BRIGHTNESS and CONTRAST Controls to minimum (zero beam current).
3. High voltage will be measured below 32.0 kV.
4. Rotate the BRIGHTNESS Control to both extremes to be sure the high voltage does not exceed the limit of 32.0 kV under any conditions.

HEIGHT ADJUSTMENT

1. Receive the WG PHILIPS pattern, and set the contrast, colour and brightness to centre.
2. Change the Sub Address VPS so the round shape in the pattern is located in the centre of screen.
3. Adjust the Sub Address HIT so that white blocks at top and bottom of the picture are just masked.

HORIZONTAL CENTRE ADJUSTMENT

1. Receive the WG PHILIPS pattern.
2. Set the contrast and colour to centre, and the brightness to centre.
3. Adjust Sub Address HPS so the pattern centre can be located at the screen centre.

FOCUS ADJUSTMENT

Adjust FOCUS Control on FLYBACK TRANS. (T461) for well defined scanning lines in the centre area on the screen.

RF AGC ADJUSTMENT

1. Tune the set in the strongest station in your area.
2. Turn RF AGC Control (R131) on PIF Board to fully counterclockwise position.
3. Adjust RF AGC Control clockwise until noise (snow) just disappears on the screen.

PAL MATRIX ADJUSTMENT

1. Tune in the colour programme of the Philips pattern.
2. Set the COLOUR Control to obtain the proper colour.
3. If the PAL MATRIX adjustment is incorrect, the Venetian Blind would appear in the colour bars area. This case needs the adjustment.
4. At the first, adjust DL PHASE ADJ. Coil (L551) to minimize the Venetian Blind.
5. Next adjust 1H-DL ADJ. VR (R551) to minimize the Blind.
6. If the Venetian Blind still remains, adjust 1H-DL PHASE ADJ. Coil (L551) to minimize the Blind again.
7. Repeat the item 5 and 6 procedures, adjust the R551 and L551 until the Blind does not appear.

BELL COIL (LM01) ADJUSTMENT

1. Receive SECAM colour bar signal.
2. Connect the synchroscope to the terminal Pin 2 of LM01.
3. Adjust LM01 for the flat level of amplitude in each colour bar waveform on the scope. (See figure 1.)

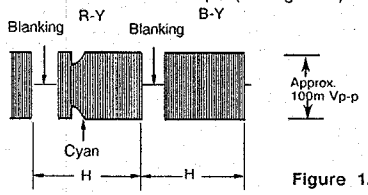


Figure 1.

IDENT COIL (LM04) ADJUSTMENT

1. Receive SECAM colour bar signal.
2. Connect the DC voltmeter (Digital Voltmeter) to the pin 23 of IC501.
3. Adjust LM04 for the maximum indication (approx. DC10V) on the meter.

B-Y, R-Y DEMOD COIL (LM02, LM03) ADJUSTMENT

1. Receive SECAM colour bar signal.
2. Set the COLOUR, BRIGHTNESS and CONTRAST Controls free.
3. Connect the synchroscope to the pin 62 of IC501.
4. Adjust LM02 so that the white level in picture part reaches to the vertical retrace line. (See figure 2.)
5. Then change the connection of synchroscope from the pin 62 to the pin 60 of IC501.
6. Adjust LM03 so that the white level in picture part reaches to the vertical retrace line. (See figure 3.)

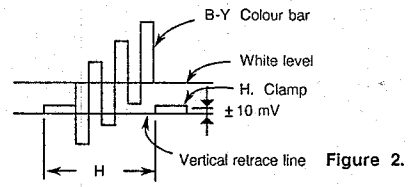


Figure 2.

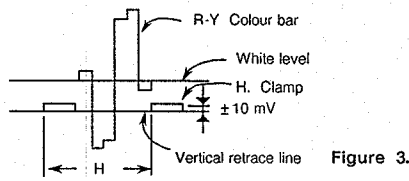


Figure 3.

CRT GREY SCALE ADJUSTMENT

1. Tune in an active channel.
2. Set "SERVICE MODE" by RMT H.H.U. (Ⓕ + ⊖ and ①, ⓪, ④, ⑧)
3. Turn the SCREEN Control (on T461) fully counterclockwise.
4. By rotating the RED, GREEN and BLUE CUT OFF Controls (R557, R558, R559) to the mid position.
5. Set the GREEN and BLUE DRIVE Controls (R252, R253) to the center.
6. Set the "CUT OFF (No Vertical Deflection) MODE" by RMT H.H.U. (Ⓕ + ② key)
7. Rotate the SCREEN Control gradually clockwise until the first line appears slightly on the screen. Set the SCREEN Control to this position.
8. Adjust the CUT OFF Controls to obtain the slightly lighted horizontal lines in the same levels of three colours (RED, GREEN and BLUE). The lines may look like white if the CUT OFF Controls are adjusted properly.
9. Release the "CUT OFF MODE" by RMT H.H.U. (Ⓕ + ② key)
10. Set the CONTRAST and COLOUR Controls to minimum, and BRIGHTNESS Control to the maximum.
11. Adjust the BLUE and GREEN DRIVE Controls (R252/R253) to obtain proper white-balanced picture in high light areas.
12. Set the BRIGHTNESS and CONTRAST Controls to obtain dark grey raster. Then check the white balance in low brightness. If the white balance is not proper, retouch the CUT OFF Controls and DRIVE Controls to obtain a good white balance in both low and high light areas.
13. Exit from the "SERVICE MODE" by turning the power ON/OFF with RMT H.H.U.

SUB-BRIGHTNESS ADJUSTMENT

1. Tune in a colour programme.
2. Set the "SERVICE MODE" by RMT H.H.U.
3. Set the CONTRAST Control to the maximum and BRIGHT Control to the center.
4. Set the COLOUR Control to the minimum.
5. Select the "SUB" symbol (F + ◪ (Item UP), F + ♪ (Item DN)) and adjust the level to the center by LEVEL key of RMT H.H.U. and leave the TV for five minutes in this state.
6. Watching the picture well, adjust the SUB-BRIGHT Control in the position (same method as in step No.5) where the picture does not show evidence of blooming in high bright area and not appear too dark in low bright portion.
7. Check the proper picture variation by rotating the CONTRAST and BRIGHTNESS Controls to both extremes.
8. If the picture does not appear dark with the CONTRAST and BRIGHTNESS Controls turned to minimum, or not appear bright with the controls turned to the maximum, adjust the SUB-BRIGHT Control again for the acceptable picture.
9. Exit from the "SERVICE MODE" by turning the power ON/OFF with the RMT H.H.U.

PICTURE I-F TRAP ALIGNMENT

GENERAL ..... Refer to figure 4 for the equipment connection.
PRELIMINARY STEPS ..... 1. Turn the power switch of TV set off.
2. Supply +12 volts to the PIF Board.
3. Turn RF AGC Control (R131) fully clockwise.
SWEEP/MARKER GENERATOR..... Connect to pin BA of P102 on the PIF Board as shown in figure 4. Set the signal level to 75~85 dBμV (75Ω load).
OSCILLOSCOPE..... Connect through the detector (See figure 6.) to the emitter of Q106.

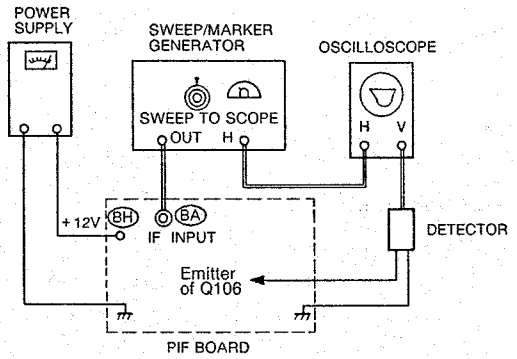


Figure 4.

STEP	SWEEP/MARKER GENERATOR	ADJUST	PROCEDURE
TRAP ALIGNMENT Control the sweep output for easy alignment. Set the IF markers for 40.4MHz and 31.9MHz.			
Trap coil T101	40.4MHz Marker "ON"	T101	Adjust T101 so the 40.4MHz marker point is placed at bottom of response. (See figure 5.)
Trap coil T102	31.9MHz Marker "ON"	T102	Adjust T102 so the 31.9MHz marker point is placed at bottom of response. (See figure 5.)

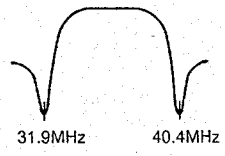


Figure 5. Trap Response

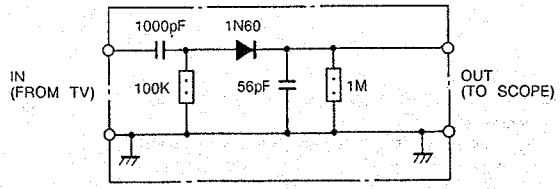


Figure 6. Detector Diagram

PICTURE I-F SWEEP ALIGNMENT

GENERAL ..... Refer to figure 7 for test equipment connection.
PRELIMINARY STEPS ..... 1. Supply +12 volts to the PIF Board.
2. Supply DC 2.5~3.0V to pin 16 of IC101.
3. Connect pin 6 of IC101 to ground through capacitor 10 μF.
SWEEP/MARKER GENERATOR..... Connect to pin BA of PIF Board as shown in figure 7. Set to 30 ~ 45 MHz sweep with signal level of 80 ~ 90 dBμ.
OSCILLOSCOPE ..... Connect to pin 7 of IC101 on the IF Board through detector (See figure below).

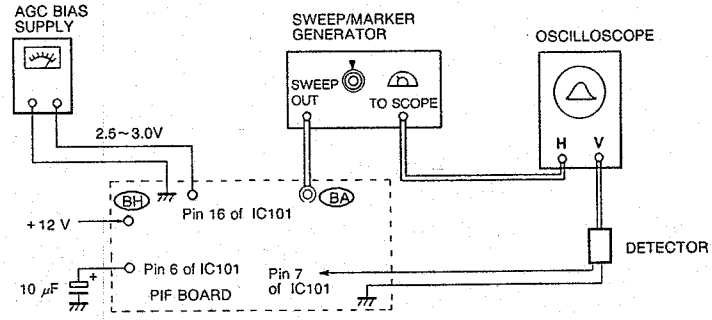
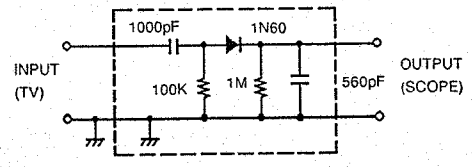


Figure 7. Picture IF Sweep Alignment

STEP	SWEEP/MARKER GENERATOR	ADJUST	REMARKS
38.9MHz VCO Coil	38.9 MHz Marker "ON"	L113	• Adjust L113 so that the marker (38.9 MHz) on the response can get zero beat with free-run frequency. (See figure 8.) • Remove the capacitor 10μF on pin 6 of IC101.
After completing the above step, disconnect the equipment and re-solder the solder links, and adjust the RF AGC Control (R131) following RF AGC ADJUSTMENTS.			

Figure 8. Magnified Response Curve



Detector Diagram

AFC ALIGNMENT

GENERAL ..... Refer to figure 9 for test equipment connection.
PRELIMINARY STEPS ..... 1. Supply +12 volts to the PIF Board.
DVM ..... Connect to the pin BN of P101A on PIF Board and ground.

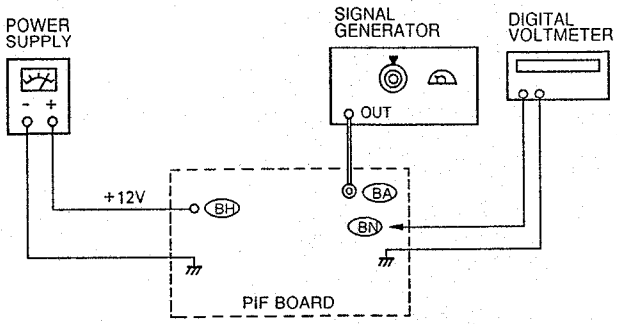


Figure 9. AFC Alignment

STEP	SIGNAL GENERATOR	ADJUST	REMARKS
1. AFC Balance (R144)	NO SIGNAL	R144	• Connect pin 16 of IC101 to ground. • Connect DVM to pin BN of P101A on PIF Board. • Adjust R144 for 4.5 volts reading on meter.
2. AFC Coil (L109)	38.9 MHz CARRIER WAVE (Level : 75 to 85 dBμ)	L109	• Remove the short of pin 16 of IC101. • Connect IF carrier wave to the pin BA of P102A. • Connect DVM to pin BN of P101A. • Adjust L109 for 4.5 volts on the meter.

IGR BOARD ALIGNMENT

STEP	ADJUSTING PARTS	INPUT TERMINAL	OUTPUT TERMINAL	TEST SIGNAL	PROCEDURE
1	SIF CONVERTER (LG05)	PIN 5 (ICG02)	PIN 17	Input level : 80 dBμ f = 5.5 MHz	1. Supply +12V to +12V line. 2. Connect SG signal to pin 5 of ICG02 through a capacitor 0.01 μF. 3. Connect oscilloscope to output side of ZG06. 4. Adjust LG05 for the maximum amplitude of 5.5 MHz.
2	6.0 MHz FM DET (LG04)	PIN 2 (ICG03)	PIN 9 (ICG03)	f = 6.0 MHz fm = 1 kHz or 400 Hz Δf = 15 kHz Level : 100 dBμV	1. Supply +12V to +12V line. 2. Connect SG signal to pin 2 of ICG03 through 0.01 μF. 3. Connect millivoltmeter to pin 9 of ICG03, and adjust LG04 for the maximum of reading.
3	5.74 MHz FM DET (LG03)	TP SIF-IN	PIN 9 (ICG04)	f = 5.74 MHz fm = 1 kHz or 400 Hz Δf = 15 kHz Level : 100 dBμV	1. Supply +12V to +12V line. 2. Connect SG signal to TP, SIF-IN through 0.01 μF. 3. Connect millivoltmeter to pin 9 of ICG04, and adjust LG03 for the maximum reading on meter.
4	54.7 kHz PILOT ADJ. (LG06)	PIN 4 of ICG01	PIN 5 of ICG01	f = 5.74MHz fm = 54.69 kHz Δf = 2.5 kHz Level:100dBμV	1. Supply +12V to pin (DE) of PD01A. 2. Connect SG signal to pin 4 of ICG01 through capacitor 0.01μF. 3. Connect oscilloscope to Pin 5 of ICG01, and adjust LG06 for the maximum amplitude of 54.69kHz element.
5	STEREO SEPARATION (RG49)	Aerial Socket	L-OUT of PD01A	ON AIR SIGNAL f = 5.5 MHz S1 : fm = 1 kHz Δf = 15 kHz S2 : fm = 1 kHz Δf = 30 kHz LEFT CH. : No modulation INPUT LEVEL : 80 to 100 dBμ	1. Receive ON-AIR stereo signal. 2. Connect oscilloscope to L-OUT of PD01A, and adjust RG49 for the minimum amplitude on scope. I²C BUS DATA M S D 86 07 8A 86 00 42

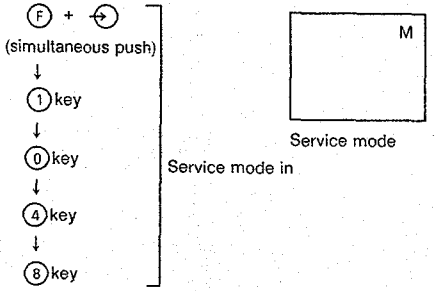
ADJUSTMENT METHOD FOR SERVICING

1. OUTLINE

Since each IC used is of I²C bus control type, readjustment of the TVs also needs adjustment through I²C bus control.
In the service mode, sub-bright, deflection system sub-adjustments, picture system sub-adjustments can be made easily with user remote control unit.

2. SERVICE MODE OPERATION

2-1. How to Enter the Service Mode



2-2. How to Exit from the Service Mode

Exit the service mode by turning the power on/off with the remote control.

3. ADJUSTMENT IN THE SERVICE MODE

3-1. Service Mode Level Adjustments

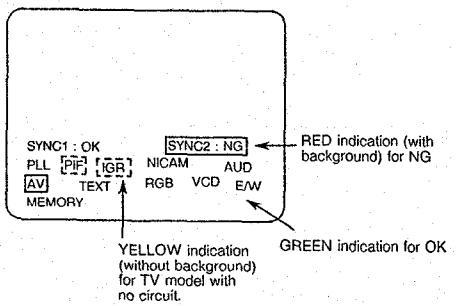
(1) Push F + ◪ key (simultaneous push) (item UP) or F + ♪ key (simultaneous push) (item DN) to select item to be adjusted.
(2) Adjust with the level UP/DN (VOL UP/DN key) key.

3-2. Other Service Mode Adjustments

F + 2 key (simultaneous push) cut off:
(NO VERTICAL DEFLECTION) ON/OFF

4. SELF CHECK

(1) Indicates sync signal and acknowledgement of each IC.
(2) Example of display on screen



(3) Operation:
① TV gets into service mode with key operation;

F + → → 1 key → 0 key → 4 key → 8 key

② TV indicates screen with F + 4 key.

5. ROM DATA LIST FOR IIC BUS CONTROL

(Reference Value)

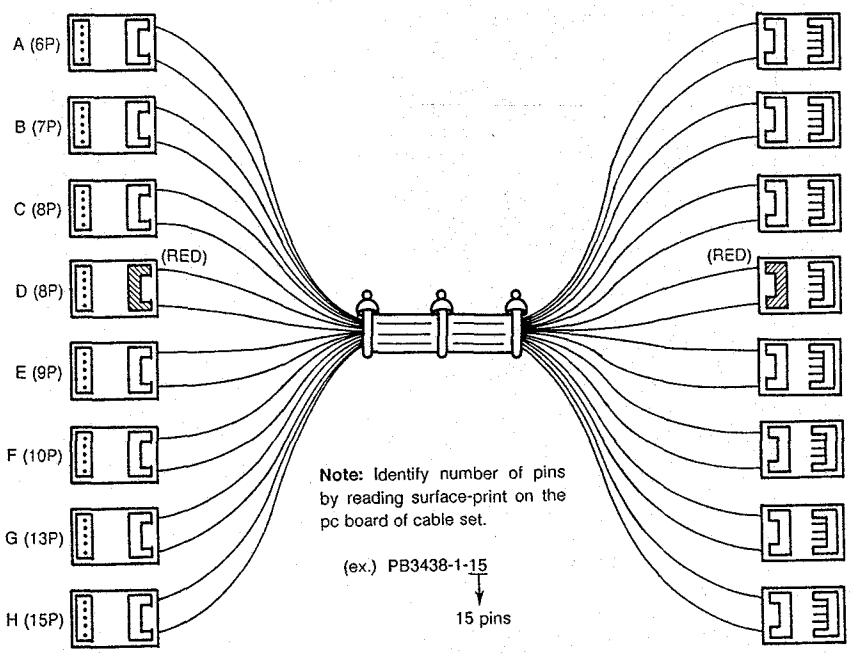
Symbol	Comment	Data	
		2927DD	3327DD
M00	MODE0	34	34
M01	MODE1	12	12
M02	MODE2	4	4
M03	MODE3	2	2
SUB	SUB BRIGHTNESS	* 31	* 31
SBM	BRIGHTNESS VARIABLE RANGE	28	28
SCN	SUB CONTRAST	31	31
SCX	SUB CONTRAST MAXIMUM	63	63
SCM	SUB CONTRAST MINIMUM	10	10
SCL	SUB COLOUR 443	34	34
SC3	SUB COLOUR 358	31	31
ST1	SUB TINT	44	44
SS4	SUB SHARP 443	40	40
SS3	SUB SHARP 358	38	38
LVE	L-SECAM OUTPUT LEVEL		
RFA	RFAGC		
HPS	H-POSITION	* 28	* 28
HIT	HEIGHT	* 35	* 35
LIN	V. LINEARITY	32	32
VSC	V. S-CORRECTION	32	17
VPS	V. POSITION	* 39	* 39
VCP	V. COMPENSATION	30	30
WID	H. WIDTH	* 18	* 25
DPC	DPC	* 18	* 30
CNR	DPC CORNER	18	28
KEY	KEYSTONE	* 12	* 12
HCP	H. COMPENSATION	00	00
VMC	V. M-CORRECTION	41	41
SLI	16 : 9 SUB LINEARITY	28	30
SDP	16 : 9 SUB DPC	25	18
SVS	16 : 9 SUB V. S-CORRECTION	23	30
SCS	16 : 9 SUB CONTRAST	36	36
SXS	16 : 9 SUB CONTRAST MAXIMUM	21	21

* Mark items should be adjusted.

EXTENSION CABLE SET

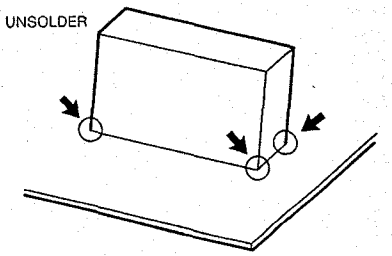
1. Extention Cable Set is available for servicing modules of C2DB chassis.
2. Identify number of pins by reading surface-print on the pc board of cable set.

Part No.	Description
23305270	Extension Cable Set

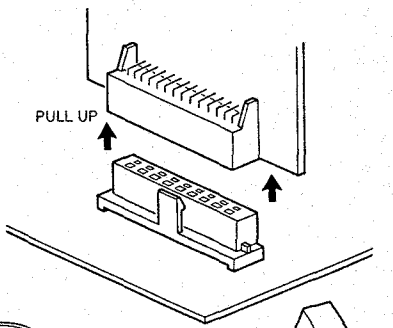


TO USE THE CABLE SET

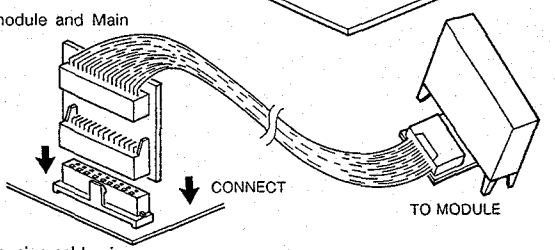
1. Unsolder corners on shielding case of module, which are marked with arrow in the figure.



2. Remove shielding case, and pull up module to disconnect.



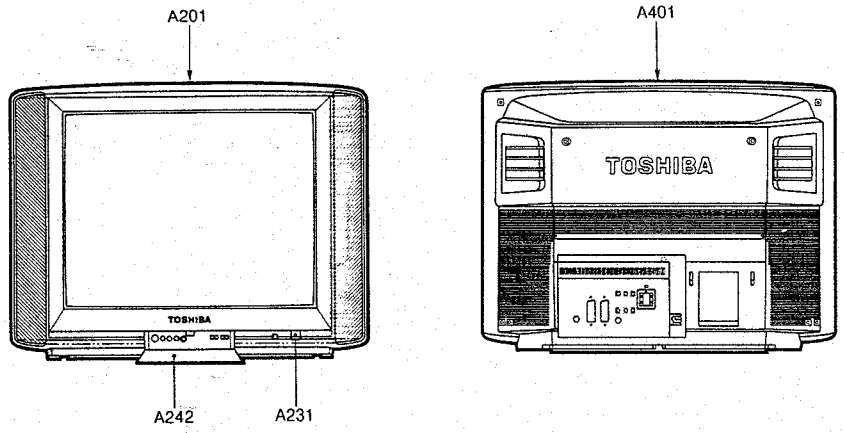
3. Connect Extension Cable Set to module and Main board.



4. Reference chart of module and extension cable pin.

Board name	UK	FRANCE	ITALY	NORTH EUROPE /SPAIN	GERMANY	Remarks
PIF	8P×2	15P 8P	8P×2	8P×2	8P×2	Do not misuse 8P connectors.
IGR	–	10P 7P	10P 7P		10P 7P	
DSP	10P 6P	–	–	–	–	
TELETEXT	9P 6P	9P 6P	9P 6P	9P 6P	9P 6P	
RGB	13P 9P	13P 9P	13P 9P	13P 9P	13P 9P	
NICAM	10P	–	–	–	–	
DOLBY	–	10P	–	–	–	
IGR/NICAM	–	–	–	10P 7P	–	

CABINET REPLACEMENT PARTS LIST



2927DD

Location No.	Part No.	Description
A201	23419628	Front Cover
A231	23443660	Button, POWER
A241	70368125	Push Catch
A242	23424914	Door
A401	23425039	Back Cover
A402	23416525	Speaker Grille, Woofer
A411	23567936	Label, Model No., B/C
A412	23995762	Label, TUV (on B/C)
A701	23524117	Carton Box
A702	23935102	Packing, Bottom
A703	23935134	Packing, Top
A705	23541008	Bag
A710	23568063	Label, Model No., Carton

3327DD

Location No.	Part No.	Description
A201S	23419796	Front Cover
A213	23425320	Bottom Cover
A401	23424966	Back Cover
A402	23416525	Speaker Grille, Woofer
A411	23568266	Label, Model No., B/C
A701	23524127	Carton Box
A702	23935139	Packing, Bottom
A703	23935140	Packing, Top
A704	23524175	Tray
A706	23974753	Polypropylene Band
A707	23524176	spacer (A)
A710	23568267	Label, Model No., Carton

CHASSIS REPLACEMENT PARTS LIST

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION" , "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON PAGE 2 OF THIS MANUAL.

CAUTION: The international hazard symbols in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE on page 2. Do not degrade the safety of the receiver through improper servicing.

NOTICE: The part number must be used when ordering parts, in order to assist in processing, be sure to include the Model number and Description.

ABBREVIATIONS:

Capacitors..... CD : Ceramic Disk PF : Plastic Film EL : Electrolytic
Resistors..... CF : Carbon Film CC : Carbon Composition MF : Metal Film
OMF : Oxide Metal Film VR : Variable Resistor FR : Fusible Resistor

(All CD and PF capacitors are ±5%, 50V and all resistors, ±5%, 1/6W unless otherwise noted.)

Model 2927DD : 3327DD

Location No.	Part No.	Description
CAPACITORS		
C101	24814103	Chip, 0.01μF, +80%, –20%
C102	24814103	Chip, 0.01μF, +80%, –20%
C103	24794101	EL, 100μF, ±20%, 16V
C104	24794471	EL, 470μF, ±20%, 16V
C105	24814103	Chip, 0.01μF, +80%, –20%
C106	24794101	EL, 100μF, ±20%, 16V
C107	24815102	Chip, 1000pF, ±10%
C108	24778181	Chip, 180pF
C109	24815102	Chip, 1000pF, ±10%
C111	24814103	Chip, 0.01μF, +80%, –20%
C113	24814103	Chip, 0.01μF, +80%, –20%
C114	24815102	Chip, 1000pF, ±10%
C115	24815102	Chip, 1000pF, ±10%
C116	24814103	Chip, 0.01μF, +80%, –20%
C117	24815102	Chip, 1000pF, ±10%
C118	24815102	Chip, 1000pF, ±10%
C119	24814103	Chip, 0.01μF, +80%, –20%
C120	24815102	Chip, 1000pF, ±10%
C121	24815102	Chip, 1000pF, ±10%
C122	24794330	EL, 33μF, ±20%, 16V
C123	24203330	EL, 33μF, ±20%, 16V
C124	24814103	Chip, 0.01μF, +80%, –20%
C125	24814103	Chip, 0.01μF, +80%, –20%
C126	24815102	Chip, 1000pF, ±10%
C127	24815102	Chip, 1000pF, ±10%
C128	24815102	Chip, 1000pF, ±10%
C130	24814103	Chip, 0.01μF, +80%, –20%
C131	24203470	EL, 47μF, ±20%, 16V
C132	24203330	EL, 33μF, ±20%, 16V
C133	24814103	Chip, 0.01μF, +80%, –20%
C134	24085958	EL, 1μF, ±20%, 50V, Non-Polar
C135	24206478	EL, 0.47μF, 50V
C136	24814103	Chip, 0.01μF, +80%, –20%
C137	24781150	Chip, 15pF
C138	24814103	Chip, 0.01μF, +80%, –20%
C141	24206478	EL, 0.47μF, 50V
C142	24814103	Chip, 0.01μF, +80%, –20%
C143	24781180	Chip, 18pF
C145	24781360	Chip, 36pF
C180	24797229	EL, 2.2μF, ±20%, 50V

Location No.	Part No.	Description
C182	24232103	CD, 0.01μF, +80%, –20%
C183	24797229	EL, 2.2μF, ±20%, 50V
C184	24797229	EL, 2.2μF, ±20%, 50V
C185	24232103	CD, 0.01μF, +80%, –20%
C187	24232103	CD, 0.01μF, +80%, –20%
C188	24232103	CD, 0.01μF, +80%, –20%
C189	24797010	EL, 1μF, ±20%, 50V
C190	24794330	EL, 33μF, ±20%, 16V
C191	24797010	EL, 1μF, ±20%, 50V
C192	24436101	CD, 100pF
C193	24212561	CD, 560pF, ±10%
C194	24212472	CD, 4700pF, ±10%
C195	24797229	EL, 2.2μF, ±20%, 50V
C196	24232103	CD, 0.01μF, +80%, –20%
C201	24797100	EL, 10μF, ±20%, 50V
C202	24795101	EL, 100μF, ±20%, 25V
C203	24232103	CD, 0.01μF, +80%, –20%
C204	24797220	EL, 22μF, ±20%, 50V
C205	24797478	EL, 0.47μF, ±20%, 50V
C208	24232103	CD, 0.01μF, +80%, –20%
C209	24797010	EL, 1μF, ±20%, 50V
C212	24436101	CD, 100pF
C213	24794471	EL, 470μF, ±20%, 16V
C230	24473620	CD, 62pF
C232	24474101	CD, 100pF, ±10%
C240	24797478	EL, 0.47μF, ±20%, 50V
C264	24436300	CD, 30pF
C301	24797229	EL, 2.2μF, ±20%, 50V
C302	24212152	CD, 1500pF, ±10%
C303	24214221	CD, 220pF, ±10%, 500V
C304	24590102	PF, 1000pF
C305	24617915	EL, 1μF, ±10%, 50V
C306	24795472	EL, 4700μF, ±20%, 25V
C307	24693473	PF, 0.047μF, 100V
C310	24765102	EL, 1000μF, ±20%, 35V
C311	24214151	CD, 150pF, ±10%, 500V
C313	24082057	PF, 0.22μF, 100V
C314	24591563	PF, 0.056μF
C315	24538104	PF, 0.1μF
C316	24538474	PF, 0.47μF
C317	24617926	EL, 220μF, ±20%, 16V

Location No.	Part No.	Description
C318	24796221	EL, 220μF, ±20%, 35V
C319	24212102	CD, 1000pF, ±10%
C320	24765221	EL, 220μF, ±20%, 35V
C321	24591183	PF, 0.018μF
C322	24617912	EL, 2.2μF, ±10%, 50V
C323	24538474	PF, 0.47μF
C378	24538104	PF, 0.1μF
C402	24353241	CD, 240pF
C403	24797339	EL, 3.3μF, ±20%, 50V
C405	24590203	PF, 0.02μF
C406	24590153	PF, 0.015μF
C407	24590243	PF, 0.024μF
C408	24794331	EL, 330μF, ±20%, 16V
C409	24232103	CD, 0.01μF, +80%, −20%
C410	24082261	PF, 5600pF, 100V
C411	24435330	CD, 33pF, 500V
C413	24214821	CD, 820pF, ±10%, 500V
C414	24590122	PF, 1200pF (2927DD)
C414	24436681	CD, 680pF (3327DD)
C416	24709100	EL, 10μF, ±20%, 200V
C417	24214391	CD, 390pF, ±10%, 500V
C421	24095749	PF, 0.27μF, 200V (2927DD)
C422	24095743	PF, 0.15μF, 200V (2927DD)
C422	24829433	PF, 0.043μF, 400V (3327DD)
⚠C423	24095757	PF, 0.56μF, 200V (2927DD)
⚠C423	24095786	PF, 0.33μF, 400V (3327DD)
C430	24538474	PF, 0.47μF
⚠C440	24082346	PF, 6600pF, ±3%, 1500V (2927DD)
⚠C440	24082352	PF, 7500pF, ±3%, 1500V (3327DD)
C441	24214221	CD, 220pF, ±10%, 500V
C443	24214221	CD, 220pF, ±10%, 500V
C444	24082291	PF, 7500pF, ±3%, 1800V (2927DD)
C444	24082289	PF, 6200pF, ±3%, 1800V (3327DD)
C445	24095903	PF, 0.056μF, ±10%, 250V
C446	24095883	PF, 0.015μF, ±3%, 630V
C447	24679479	EL, 4.7μF, ±20%, 250V
C448	24640962	EL, 33μF, ±20%, 200V
C449	24667102	EL, 1000μF, ±20%, 25V
C450	24794471	EL, 470μF, ±20%, 16V
⚠C463	24212222	CD, 2200pF, ±10%
C464	24095758	PF, 0.62μF, 200V (2927DD)
C465	24082005	PF, 0.75μF, 200V (2927DD)
C466	24095682	PF, 0.12μF, 200V (2927DD)
C466	24095751	PF, 0.33μF, 200V (3327DD)
C470	24666220	EL, 22μF, ±20%, 16V
C471	24538474	PF, 0.47μF
C501	24797220	EL, 22μF, ±20%, 50V
C502	24436181	CD, 180pF
C504	24353150	CD, 15pF
C505	24590273	PF, 0.027μF
C506	24590273	PF, 0.027μF
C507	24590103	PF, 0.01μF
C508	24085944	EL, 2.2μF, ±20%, 50V, Non-Polar
C509	24353330	CD, 33pF
C510	24232103	CD, 0.01μF, +80%, −20%
C511	24232103	CD, 0.01μF, +80%, −20%
C512	24353200	CD, 20pF
C513	24232103	CD, 0.01μF, +80%, −20%
C515	24797220	EL, 22μF, ±20%, 50V

Location No.	Part No.	Description
C516	24590104	PF, 0.1μF
C517	24590104	PF, 0.1μF
C518	24232103	CD, 0.01μF, +80%, −20%
C519	24232103	CD, 0.01μF, +80%, −20%
C520	24797478	EL, 0.47μF, ±20%, 50V
C521	24538474	PF, 0.47μF
C522	24538474	PF, 0.47μF
C523	24538474	PF, 0.47μF
C525	24436270	CD, 27pF
C526	24436270	CD, 27pF
C527	24436270	CD, 27pF
C528	24436470	CD, 47pF
C529	24353300	CD, 30pF
C530	24796220	EL, 22μF, ±20%, 35V
C531	24794100	EL, 10μF, ±20%, 16V
C532	24436101	CD, 100pF
C533	24436101	CD, 100pF
C534	24436101	CD, 100pF
C535	24797100	EL, 10μF, ±20%, 50V
C540	24436301	CD, 300pF (2927DD)
C540	24436391	CD, 390pF (3327DD)
C541	24436301	CD, 300pF (2927DD)
C541	24436331	CD, 330pF (3327DD)
C542	24436301	CD, 300pF (2927DD)
C542	24436331	CD, 330pF (3327DD)
C590	24794471	EL, 470μF, ±20%, 16V
C591	24797478	EL, 0.47μF, ±20%, 50V
C601	24814103	Chip, 0.01μF, +80%, −20%
C602	24814103	Chip, 0.01μF, +80%, −20%
C603	24203330	EL, 33μF, ±20%, 16V
C666	24232103	CD, 0.01μF, +80%, −20%
C670	24590104	PF, 0.1μF
C672	24667470	EL, 47μF, ±20%, 25V
C673	24797010	EL, 1μF, ±20%, 50V
C674	24590153	PF, 0.015μF
C675	24797010	EL, 1μF, ±20%, 50V
C676	24590224	PF, 0.22μF
C677	24590153	PF, 0.015μF
C678	24667470	EL, 47μF, ±20%, 25V
C679	24797010	EL, 1μF, ±20%, 50V
C680	24667470	EL, 47μF, ±20%, 25V
C681	24667470	EL, 47μF, ±20%, 25V
C682	24668101	EL, 100μF, ±20%, 35V
C683	24668102	EL, 1000μF, ±20%, 35V
C684	24591124	PF, 0.12μF
C685	24668102	EL, 1000μF, ±20%, 35V
C686	24591124	PF, 0.12μF
C687	24668102	EL, 1000μF, ±20%, 35V
C688	24591124	PF, 0.12μF
C690	24590222	PF, 2200pF
C701	24203470	EL, 47μF, ±20%, 16V
C702	24203101	EL, 100μF, ±20%, 16V
C703	24436820	CD, 82pF
C704	24232103	CD, 0.01μF, +80%, −20%
C705	24212103	CD, 0.01μF, ±10%
C706	24436470	CD, 47pF
C707	24203470	EL, 47μF, ±20%, 16V
C708	24212103	CD, 0.01μF, ±10%
C712	24203470	EL, 47μF, ±20%, 16V
C713	24790100	EL, 10μF, ±20%, 160V
C714	24212101	CD, 100pF, ±10%
C715	24214472	CD, 4700pF, ±10%, 500V
C716	24212101	CD, 100pF, ±10%
C717	24214472	CD, 4700pF, ±10%, 500V

Location No.	Part No.	Description
C718	24790470	EL, 47μF, ±20%, 160V
C719	24434560	CD, 56pF, ±10%, 500V
C720	24790100	EL, 10μF, ±20%, 160V
C721(U902)	24436430	CD, 43pF
C721(U903)	24790470	EL, 47μF, ±20%, 160V
C722	24212561	CD, 560pF, ±10%
C723	24436101	CD, 100pF
C766	24436300	CD, 30pF
⚠C801	24082319	PF, 0.1μF, ±20%, AC250V
⚠C804	24082319	PF, 0.1μF, ±20%, AC250V
C805	24092281	CD, 4700pF, ±20%, AC250V
C806	24092281	CD, 4700pF, ±20%, AC250V
C807	24092281	CD, 4700pF, ±20%, AC250V
C808	24092281	CD, 4700pF, ±20%, AC250V
C809	24086873	EL, 330μF, ±20%, 400V
C820	24591183	PF, 0.018μF
C821	24794102	EL, 1000μF, ±20%, 16V
C822	24095634	PF, 0.01μF, ±3%, 630V
C823	24092343	CD, 680pF, ±10%, 2kV
C824	24095937	PF, 1200pF, 1250V
C825	24212151	CD, 150pF, ±10%
C826	24795471	EL, 470μF, 25V
C827	24797102	EL, 1000μF, ±20%, 50V
C828	24796222	EL, 2200μF, ±20%, 35V
C829	24092339	CD, 330pF, ±10%, 2kV
C830	24092337	CD, 220pF, ±10%, 2kV
C831	24086939	EL, 330μF, ±20%, 200V
C833	24436030	CD, 3pF, ±0.25pF
C834	24590122	PF, 1200pF
C835	24797479	EL, 4.7μF, ±20%, 50V
C836	24797100	EL, 10μF, ±20%, 50V
C837	24797100	EL, 10μF, ±20%, 50V
C838	24214471	CD, 470pF, ±10%, 500V
C840	24214471	CD, 470pF, ±10%, 500V
C841	24435390	CD, 39pF, 500V
C842	24435390	CD, 39pF, 500V
C843	24797100	EL, 10μF, ±20%, 50V
C844	24094656	CD, 2200pF, ±20%, AC400V
C845	24794471	EL, 470μF, ±20%, 16V
C846	24082047	PF, 0.033μF, 100V
C847	24538333	PF, 0.033μF
C849	24214471	CD, 470pF, ±10%, 500V
C850	24214561	CD, 560pF, ±10%, 500V
C851	24214561	CD, 560pF, ±10%, 500V
C852	24214182	CD, 1800pF, ±10%, 500V
C853	24501221	PF, 220pF
C854	24794102	EL, 1000μF, ±20%, 16V
C855	24212101	CD, 100pF, ±10%
C856	24436271	CD, 270pF
C860	24795221	EL, 220μF, ±20%, 25V
C861	24232103	CD, 0.01μF, +80%, −20%
C901	24700100	EL, 10μF, ±20%, 250V
C902	24095933	PF, 1800pF, 1250V
CA10	24212102	CD, 1000pF, ±10%
CA11	24794100	EL, 10μF, ±20%, 16V
CA12	24794102	EL, 1000μF, ±20%, 16V
CA13	24794100	EL, 10μF, ±20%, 16V
CA15	24590104	PF, 0.1μF
CA16	24794100	EL, 10μF, ±20%, 16V
CA17	24590104	PF, 0.1μF
CA22	24797478	EL, 0.47μF, ±20%, 50V
CA29	24538474	PF, 0.47μF
CA31	24436300	CD, 30pF
CA32	24436300	CD, 30pF

Location No.	Part No.	Description
CA36	24590104	PF, 0.1μF
CA70	24797010	EL, 1μF, ±20%, 50V
CA71	24212102	CD, 1000pF, ±10%
CA72	24212472	CD, 4700pF, ±10%
CA73	24797229	EL, 2.2μF, ±20%, 50V
CA74	24232103	CD, 0.01μF, +80%, −20%
CA75	24436561	CD, 560pF
CA76	24794330	EL, 33μF, ±20%, 16V
CA77	24232103	CD, 0.01μF, +80%, −20%
CB01(U904)	24797100	EL, 10μF, ±20%, 50V
CB01(U902)	24436101	CD, 100pF
CB10	24797100	EL, 10μF, ±20%, 50V
CB11	24232103	CD, 0.01μF, +80%, −20%
CB21	24206478	EL, 0.47μF, 50V
CD01	24796101	EL, 100μF, ±20%, 35V
CD11	24676229	EL, 2.2μF, ±20%, 50V (2927DD)
CD11	24640872	EL, 10μF, ±20%, 100V (3327DD)
CE61	24794100	EL, 10μF, ±20%, 16V
CE62	24797010	EL, 1μF, ±20%, 50V
CE65	24794100	EL, 10μF, ±20%, 16V
CE66	24794470	EL, 47μF, ±20%, 16V
CF01	24814103	Chip, 0.01μF, +80%, −20%
CF02	24794100	EL, 10μF, ±20%, 16V
CF03	24538224	PF, 0.22μF
CF04	24085944	EL, 2.2μF, ±20%, 50V, Non-Polar
CF05	24590683	PF, 0.068μF
CF06	24781221	Chip, 220pF
CF08	24590473	PF, 0.047μF
CF09	24774180	Chip, 18pF
CF11	24590473	PF, 0.047μF
CF12	24794470	EL, 47μF, ±20%, 16V
CF13	24814103	Chip, 0.01μF, +80%, −20%
CF14	24814103	Chip, 0.01μF, +80%, −20%
CF16	24774180	Chip, 18pF
CF20	24781150	Chip, 15pF
CF21	24590102	PF, 1000pF
CF22	24781471	Chip, 470pF
CF23	24590223	PF, 0.022μF
CF24	24781271	Chip, 270pF
CF25	24781101	Chip, 100pF
CF26	24774150	Chip, 15pF
CF27	24781270	Chip, 27pF
CF28	24814103	Chip, 0.01μF, +80%, −20%
CF36	24815561	Chip, 560pF, ±10%
CF37	24814103	Chip, 0.01μF, +80%, −20%
CF38	24814103	Chip, 0.01μF, +80%, −20%
CG01	24781470	Chip, 47pF
CG02	24781470	Chip, 47pF
CG06	24814103	Chip, 0.01μF, +80%, −20%
CG07	24203470	EL, 47μF, ±20%, 16V
CG08	24781471	Chip, 470pF
CG09	24781471	Chip, 470pF
CG10	24814103	Chip, 0.01μF, +80%, −20%
CG11	24774680	Chip, 68pF
CG12	24814103	Chip, 0.01μF, +80%, −20%
CG14	24814103	Chip, 0.01μF, +80%, −20%
CG15(U903)	24538393	PF, 0.039μF
CG15(UG01)	24814103	Chip, 0.01μF, +80%, −20%
CG16(U903)	24538103	PF, 0.01μF
CG16(UG01)	24814103	Chip, 0.01μF, +80%, −20%
CG17(U903)	24538393	PF, 0.039μF
CG17(UG01)	24203220	EL, 22μF, ±20%, 16V
CG18(UG01)	24774150	Chip, 15pF

Location No.	Part No.	Description
CG18(U903)	24538393	PF, 0.039μF
CG19	24794100	EL, 10μF, ±20%, 16V
CG20(U903)	24794100	EL, 10μF, ±20%, 16V
CG20(UG01)	24778620	Chip, 62pF
CG21(UG01)	24781201	Chip, 200pF
CG21(U903)	24797010	EL, 1μF, ±20%, 50V
CG22(UG01)	24783220	Chip, 22pF
CG22(U903)	24797010	EL, 1μF, ±20%, 50V
CG23	24794100	EL, 10μF, ±20%, 16V
CG24	24797100	EL, 10μF, ±20%, 50V
CG25	24203100	EL, 10μF, ±20%, 16V
CG26(UG01)	24538103	PF, 0.01μF
CG26(U903)	24794100	EL, 10μF, ±20%, 16V
CG27	24232103	CD, 0.01μF, +80%, −20%
CG28	24794101	EL, 100μF, ±20%, 16V
CG29	24794471	EL, 470μF, ±20%, 16V
CG30(U903)	24232103	CD, 0.01μF, +80%, −20%
CG30(UG01)	24814103	Chip, 0.01μF, +80%, −20%
CG31(UG01)	24814103	Chip, 0.01μF, +80%, −20%
CG31(U903)	24203100	EL, 10μF, ±20%, 16V
CG32	24203220	EL, 22μF, ±20%, 16V
CG33	24774150	Chip, 15pF
CG34(UG01)	24778680	Chip, 68pF
CG34(U903)	24590562	PF, 5600pF
CG35(UG01)	24781201	Chip, 200pF
CG35(U903)	24794100	EL, 10μF, ±20%, 16V
CG36(UG01)	24783220	Chip, 22pF
CG36(U903)	24206339	EL, 3.3μF, 50V
CG37(UG01)	24538103	PF, 0.01μF
CG37(U903)	24206339	EL, 3.3μF, 50V
CG38	24781681	Chip, 680pF
CG39	24590332	PF, 3300pF
CG40	24206229	EL, 2.2μF, 50V
CG41	24206229	EL, 2.2μF, 50V
CG42(UG01)	24814103	Chip, 0.01μF, +80%, −20%
CG42(U903)	24206339	EL, 3.3μF, 50V
CG43(UG01)	24203101	EL, 100μF, ±20%, 16V
CG43(U903)	24206339	EL, 3.3μF, 50V
CG44(U903)	24436470	CD, 47pF
CG44(UG01)	24814103	Chip, 0.01μF, +80%, −20%
CG45(U903)	24436470	CD, 47pF
CG45(UG01)	24206010	EL, 1μF, ±20%, 50V
CG46(UG01)	24538474	PF, 0.47μF
CG46(U903)	24203100	EL, 10μF, ±20%, 16V
CG47(U903)	24203100	EL, 10μF, ±20%, 16V
CG47(UG01)	24206010	EL, 1μF, ±20%, 50V
CG48	24203100	EL, 10μF, ±20%, 16V
CG49	24781102	Chip, 1000pF
CG50	24206010	EL, 1μF, ±20%, 50V
CG51	24203100	EL, 10μF, ±20%, 16V
CG52	24203100	EL, 10μF, ±20%, 16V
CG53	24814103	Chip, 0.01μF, +80%, −20%
CM01	24436221	CD, 220pF
CM02	24436201	CD, 200pF
CM03	24340080	CD, 8pF, ±0.25pF
CM04	24340080	CD, 8pF, ±0.25pF
CM05	24232103	CD, 0.01μF, +80%, −20%
CM06	24357270	CD, 27pF
CM07	24590563	PF, 0.056μF
CM08	24232103	CD, 0.01μF, +80%, −20%
CM09	24357200	CD, 20pF
CM10	24436270	CD, 27pF
CM12	24232103	CD, 0.01μF, +80%, −20%
CM14	24357200	CD, 20pF

Location No.	Part No.	Description
CN10	24474101	CD, 100pF, ±10%
CN11	24232103	CD, 0.01μF, +80%, −20%
CN12	24436330	CD, 33pF
CN13	24473100	CD, 10pF
CN15	24473120	CD, 12pF
CN16	24212102	CD, 1000pF, ±10%
CN96	24797229	EL, 2.2μF, ±20%, 50V
CS01	24203100	EL, 10μF, ±20%, 16V
CS02	24538274	PF, 0.27μF
CS03	24203100	EL, 10μF, ±20%, 16V
CS05	24590104	PF, 0.1μF
CS06	24232103	CD, 0.01μF, +80%, −20%
CS08	24206010	EL, 1μF, ±20%, 50V
CS09	24202221	EL, 220μF, ±20%, 10V
CS39	24203100	EL, 10μF, ±20%, 16V
CS50	24797478	EL, 0.47μF, ±20%, 50V
CT01	24538104	PF, 0.1μF
CT03	24538334	PF, 0.33μF
CT04	24538334	PF, 0.33μF
CT05	24232103	CD, 0.01μF, +80%, −20%
CT06	24797101	EL, 100μF, ±20%, 50V
CT07	24232103	CD, 0.01μF, +80%, −20%
CT09	24797220	EL, 22μF, ±20%, 50V
CT11	24590104	PF, 0.1μF
CT12	24797100	EL, 10μF, ±20%, 50V
CT13	24473200	CD, 20pF
CT14	24474101	CD, 100pF, ±10%
CV01	24590104	PF, 0.1μF
CV02	24203100	EL, 10μF, ±20%, 16V
CV03	24203100	EL, 10μF, ±20%, 16V
CV04	24203100	EL, 10μF, ±20%, 16V
CV05	24232103	CD, 0.01μF, +80%, −20%
CV06	24203100	EL, 10μF, ±20%, 16V
CV07	24797100	EL, 10μF, ±20%, 50V
CV08	24203100	EL, 10μF, ±20%, 16V
CV09	24232103	CD, 0.01μF, +80%, −20%
CV10	24203100	EL, 10μF, ±20%, 16V
CV11	24203100	EL, 10μF, ±20%, 16V
CV12	24203100	EL, 10μF, ±20%, 16V
CV16(U902)	24212102	CD, 1000pF, ±10%
CV16(U903)	24212102	CD, 1000pF, ±10%
CV17(U902)	24212102	CD, 1000pF, ±10%
CV17(U903)	24212102	CD, 1000pF, ±10%
CV18	24232103	CD, 0.01μF, +80%, −20%
CV19	24232103	CD, 0.01μF, +80%, −20%
CV20	24212102	CD, 1000pF, ±10%
CV21	24212102	CD, 1000pF, ±10%
CV22	24232103	CD, 0.01μF, +80%, −20%
CV23	24202221	EL, 220μF, ±20%, 10V
CV24	24797100	EL, 10μF, ±20%, 50V
CV25	24232103	CD, 0.01μF, +80%, −20%
CV26	24202221	EL, 220μF, ±20%, 10V
CV27	24797339	EL, 3.3μF, ±20%, 50V
CV28	24590104	PF, 0.1μF
CV29	24590104	PF, 0.1μF
CV30	24797100	EL, 10μF, ±20%, 50V
CV31	24232103	CD, 0.01μF, +80%, −20%
CV32	24232103	CD, 0.01μF, +80%, −20%
CV36	24797100	EL, 10μF, ±20%, 50V
CV37	24232103	CD, 0.01μF, +80%, −20%
CV47	24203101	EL, 100μF, ±20%, 16V
CV70	24794101	EL, 100μF, ±20%, 16V
CV71	24232103	CD, 0.01μF, +80%, −20%
CV75	24202221	EL, 220μF, ±20%, 10V

Location No.	Part No.	Description
CV76	24202221	EL, 220μF, ±20%, 10V
CV79	24203470	EL, 47μF, ±20%, 16V
CV80	24203470	EL, 47μF, ±20%, 16V
CV82	24203100	EL, 10μF, ±20%, 16V
CV83	24203100	EL, 10μF, ±20%, 16V
CV85	24203100	EL, 10μF, ±20%, 16V
CV86	24203100	EL, 10μF, ±20%, 16V
CV87	24206100	EL, 10μF, 50V (2927DD)
CV87	24203100	EL, 10μF, 16V (3327DD)
CV88	24206100	EL, 10μF, 50V (2927DD)
CV88	24203100	EL, 10μF, 16V (3327DD)
CV89	24212102	CD, 1000pF, ±10%
CV91	24212102	CD, 1000pF, ±10%
CV92	24202221	EL, 220μF, ±20%, 10V
CV93	24202221	EL, 220μF, ±20%, 10V
CV96	24206010	EL, 1μF, ±20%, 50V
CV97	24206010	EL, 1μF, ±20%, 50V
CV98	24590562	PF, 5600pF
CV99	24590562	PF, 5600pF
CW30	24203101	EL, 100μF, ±20%, 16V
CW40	24206010	EL, 1μF, ±20%, 50V
CW41	24206010	EL, 1μF, ±20%, 50V
CW50	24794221	EL, 220μF, ±20%, 16V
CX02	24538474	PF, 0.47μF
CX03	24538474	PF, 0.47μF
CX04	24538474	PF, 0.47μF
CX30	24590104	PF, 0.1μF
CX51	24797010	EL, 1μF, ±20%, 50V
CX52	24797010	EL, 1μF, ±20%, 50V
CX53	24797010	EL, 1μF, ±20%, 50V
CX54	24797010	EL, 1μF, ±20%, 50V
CX55	24797010	EL, 1μF, ±20%, 50V
CX56	24797010	EL, 1μF, ±20%, 50V
CX60	24797010	EL, 1μF, ±20%, 50V
CX61	24797010	EL, 1μF, ±20%, 50V
CX62	24797010	EL, 1μF, ±20%, 50V
CX63	24794221	EL, 220μF, ±20%, 16V
CX64	24590104	PF, 0.1μF
CX65	24232103	CD, 0.01μF, +80%, −20%

RESISTORS

R101	24872131	Chip, 130 ohm, 1/16W
R102	24872151	Chip, 150 ohm, 1/16W
R103	24872391	Chip, 390 ohm, 1/16W
R104	24872133	Chip, 13k ohm, 1/16W
R105	24872432	Chip, 4300 ohm, 1/16W
R106	24872122	Chip, 1200 ohm, 1/16W
R107	24872121	Chip, 120 ohm, 1/16W
R108	24872820	Chip, 82 ohm, 1/16W
R109	24872332	Chip, 3300 ohm, 1/16W
R110	24872360	Chip, 36 ohm, 1/16W
R111	24552101	OMF, 100 ohm, 1/2W
R112	24872392	Chip, 3900 ohm, 1/16W
R113	24872153	Chip, 15k ohm, 1/16W
R114	24872102	Chip, 1k ohm, 1/16W
R115	24872103	Chip, 10k ohm, 1/16W
R116	24872222	Chip, 2200 ohm, 1/16W
R117	24872222	Chip, 2200 ohm, 1/16W
R120	24872103	Chip, 10k ohm, 1/16W
R121	24872473	Chip, 47k ohm, 1/16W
R122	24872103	Chip, 10k ohm, 1/16W
R123	24872472	Chip, 4700 ohm, 1/16W
R125	24872473	Chip, 47k ohm, 1/16W
R126	24872101	Chip, 100 ohm, 1/16W

Location No.	Part No.	Description
R127	24872562	Chip, 5600 ohm, 1/16W
R128	24872360	Chip, 36 ohm, 1/16W
R129	24872682	Chip, 6800 ohm, 1/16W
R130	24872122	Chip, 1200 ohm, 1/16W
R131	24066599	VR, 5k ohm, 1/10W
R132	24872472	Chip, 4700 ohm, 1/16W
R133	24872272	Chip, 2700 ohm, 1/16W
R134	24872152	Chip, 1500 ohm, 1/16W
R135	24872222	Chip, 2200 ohm, 1/16W
R136	24872272	Chip, 2700 ohm, 1/16W
R139	24872680	Chip, 68 ohm, 1/16W
R140	24872102	Chip, 1k ohm, 1/16W
R141	24872271	Chip, 270 ohm, 1/16W
R142	24872102	Chip, 1k ohm, 1/16W
R143	24872103	Chip, 10k ohm, 1/16W
R144	24066604	VR, 200k ohm, 1/10W
R145	24872823	Chip, 82k ohm, 1/16W
R146	24872102	Chip, 1k ohm, 1/16W
R148	24872102	Chip, 1k ohm, 1/16W
R149	24000824	Chip Jumper, 2125 type
R150	24872181	Chip, 180 ohm, 1/16W
R151	24872151	Chip, 150 ohm, 1/16W
R152	24872101	Chip, 100 ohm, 1/16W
R153	24872101	Chip, 100 ohm, 1/16W
R154	24872471	Chip, 470 ohm, 1/16W
R155	24000824	Chip Jumper, 2125 type
R156	24000824	Chip Jumper, 2125 type
R157	24872101	Chip, 100 ohm, 1/16W
R158	24000824	Chip Jumper, 2125 type
R159	24552102	OMF, 1k ohm, 1/2W
R164	24872105	Chip, 1M ohm, 1/16W
R166	24872472	Chip, 4700 ohm, 1/16W
R167	24872103	Chip, 10k ohm, 1/16W
R168	24872473	Chip, 47k ohm, 1/16W
R169	24872103	Chip, 10k ohm, 1/16W
R170	24872473	Chip, 47k ohm, 1/16W
R171	24872101	Chip, 100 ohm, 1/16W
R173	24872105	Chip, 1M ohm, 1/16W
R175	24000824	Chip Jumper, 2125 type
R176	24000824	Chip Jumper, 2125 type
R177	24872101	Chip, 100 ohm, 1/16W
R178	24872471	Chip, 470 ohm, 1/16W
R180	24872471	Chip, 470 ohm, 1/16W
R181	24872471	Chip, 470 ohm, 1/16W
R182	24872331	Chip, 330 ohm, 1/16W
R183	24872681	Chip, 680 ohm, 1/16W
R190	24366152	CF, 1500 ohm
R191	24366471	CF, 470 ohm
R192	24366223	CF, 22k ohm
R193	24366392	CF, 3900 ohm
R194	24366564	CF, 560k ohm
R195	24366123	CF, 12k ohm
R196	24366392	CF, 3900 ohm
R197	24366392	CF, 3900 ohm
R198	24366103	CF, 10k ohm
R199	24366473	CF, 47k ohm
R201	24366152	CF, 1500 ohm
R202	24366152	CF, 1500 ohm
R204	24366560	CF, 56 ohm
R206	24366472	CF, 4700 ohm
R207	24366473	CF, 47k ohm
R208	24366471	CF, 470 ohm
R211	24366102	CF, 1k ohm
R219	24366472	CF, 4700 ohm

Location No.	Part No.	Description
R221	24366223	CF, 22k ohm
R222	24366223	CF, 22k ohm
R230	24366823	CF, 82k ohm
R235	24366181	CF, 180 ohm
R236	24366202	CF, 2k ohm
R237	24366202	CF, 2k ohm
R238	24366472	CF, 4700 ohm
R240	24366394	CF, 390k ohm
R241	24366564	CF, 560k ohm
R242(U902)	24366272	CF, 2700 ohm
R242(U904)	24366822	CF, 8200 ohm
R243	24366912	CF, 9100 ohm
R246	24366103	CF, 10k ohm
R247	24366562	CF, 5600 ohm
R249	24366562	CF, 5600 ohm
R250	24366103	CF, 10k ohm
R252	24066596	VR, 500 ohm, 1/10W
R253	24066596	VR, 500 ohm, 1/10W (2927DD)
R253	24066595	VR, 200 ohm, 1/10W (3327DD)
R264	24366473	CF, 47k ohm
R265	24366223	CF, 22k ohm
R266	24366472	CF, 4700 ohm
R267	24366223	CF, 22k ohm
R269	24366101	CF, 100 ohm
R301(U902)	24366201	CF, 200 ohm
R301(U904)	24322439	OMF, 4.3 ohm, 1W (2927DD)
R301(U904)	24322399	OMF, 3.9 ohm, 1W (3327DD)
R302	24366244	CF, 240k ohm
R303	24366473	CF, 47k ohm
R304	24366303	CF, 30k ohm (2927DD)
R304	24366393	CF, 39k ohm (3327DD)
R305(U904)	24322159	OMF, 1.5 ohm, 1W
R305(U902)	24366161	CF, 160 ohm
R306	24366473	CF, 47k ohm (2927DD)
R306	24366563	CF, 56k ohm (3327DD)
R307	24366394	CF, 390k ohm
R308	24366102	CF, 1k ohm
R309	24383561	OMF, 560 ohm, 2W
R310	24366272	CF, 2700 ohm
R311	24366271	CF, 270 ohm
R312	24366204	CF, 200k ohm
R313	24366104	CF, 100k ohm
R314	24366105	CF, 1M ohm
R315	24366155	CF, 1.5M ohm
R316	24366154	CF, 150k ohm
R317	24366102	CF, 1k ohm
R318	24366471	CF, 470 ohm
R319	24366471	CF, 470 ohm
R320	24366101	CF, 100 ohm
R321	24366102	CF, 1k ohm
⚠R327	24000577	FR, 5.6 ohm, 1W (2927DD)
⚠R327	24000189	FR, 4.7 ohm, 1W (3327DD)
R329	24366223	CF, 22k ohm
R330	24321109	OMF, 1.0 ohm, 1/2W (3327DD)
R334	24383751	OMF, 750 ohm, 2W
R336	24383621	OMF, 620 ohm, 2W (3327DD)
R340	24553561	OMF, 560 ohm, 1W (2927DD)
R340	24553751	OMF, 750 ohm, 1W (3327DD)
R341(U904)	24381222	OMF, 2200 ohm, 1/2W
R341(U902)	24366223	CF, 22k ohm
R342	24366562	CF, 5600 ohm
R402	24366273	CF, 27k ohm
R403	24366302	CF, 3k ohm
R404	24552432	OMF, 4300 ohm, 1/2W

Location No.	Part No.	Description
R405	24366431	CF, 430 ohm
R408	24366682	CF, 6800 ohm
R409	24366434	CF, 430k ohm
R410	24552472	OMF, 4700 ohm, 1/2W
R411	24366561	CF, 560 ohm
R413	24366151	CF, 150 ohm
R415	24553242	OMF, 2400 ohm, 1W
R416	24510682	Cement, 6800 ohm, 5W
R421	24366104	CF, 100k ohm
R430	24366272	CF, 2700 ohm
R431	24366102	CF, 1k ohm
R432	24366433	CF, 43k ohm
R433	24366303	CF, 30k ohm
R434	24366123	CF, 12k ohm
R440	24552103	OMF, 10k ohm, 1/2W
R441	24376123	CF, 12k ohm, 1/2W
R442	24382102	OMF, 1k ohm, 1W
R444	24322398	OMF, 0.39 ohm, 1W
R446	24533151	FR, 150 ohm, 2W
⚠R448	24323338	OMF, 0.33 ohm, 2W
R470	24322478	OMF, 0.47 ohm, 1W
R471	24366101	CF, 100 ohm
R472	24376393	CF, 39k ohm, 1/2W
R474	24366331	CF, 330 ohm
R475	24366102	CF, 1k ohm
R476	24366221	CF, 220 ohm
R477	24366153	CF, 15k ohm
R502	24366334	CF, 330k ohm
R504	24366391	CF, 390 ohm
R505	24366512	CF, 5100 ohm
R506	24366101	CF, 100 ohm
R507	24366822	CF, 8200 ohm
R508	24366561	CF, 560 ohm
R509	24366122	CF, 1200 ohm
R511	24366202	CF, 2k ohm
R512	24366182	CF, 1800 ohm
R513	24366122	CF, 1200 ohm
R515	24366221	CF, 220 ohm
R516	24366221	CF, 220 ohm
R517	24366221	CF, 220 ohm
R518	24366185	CF, 1.8M ohm
R519	24366475	CF, 4.7M ohm
R520	24366332	CF, 3300 ohm
R521	24366102	CF, 1k ohm
R522	24366185	CF, 1.8M ohm
R523	24366473	CF, 47k ohm
R529	24366101	CF, 100 ohm
R530	24366101	CF, 100 ohm
R531(U902)	24366432	CF, 4300 ohm
R531(U903)	24366271	CF, 270 ohm (2927DD)
R531(U903)	24366101	CF, 100 ohm (3327DD)
R532	24366121	CF, 120 ohm (2927DD)
R532	24366101	CF, 100 ohm (3327DD)
R533	24366362	CF, 3600 ohm (2927DD)
R533	24366152	CF, 1500 ohm (3327DD)
R534	24366101	CF, 100 ohm
R535	24366181	CF, 180 ohm (2927DD)
R535	24366111	CF, 110 ohm (3327DD)
R537	24366362	CF, 3600 ohm (2927DD)
R537	24366152	CF, 1500 ohm (3327DD)
R538	24366201	CF, 200 ohm (2927DD)
R538	24366131	CF, 130 ohm (3327DD)
R539	24366362	CF, 3600 ohm (2927DD)
R539	24366152	CF, 1500 ohm (3327DD)

Location No.	Part No.	Description
R541	24366821	CF, 820 ohm
R542	24366241	CF, 240 ohm
R543	24366103	CF, 10k ohm
R545	24366102	CF, 1k ohm
R546	24366333	CF, 33k ohm
R547	24366102	CF, 1k ohm
R548	24366102	CF, 1k ohm
R549	24366102	CF, 1k ohm
R551	24066955	VR, 1k ohm, 1/10W
R557	24066600	VR, 10k ohm, 1/10W
R558	24066600	VR, 10k ohm, 1/10W
R559	24066600	VR, 10k ohm, 1/10W
R565	24366560	CF, 56 ohm (2927DD)
R565	24366330	CF, 33 ohm (3327DD)
R566	24366560	CF, 56 ohm (2927DD)
R566	24366330	CF, 33 ohm (3327DD)
R567	24366560	CF, 56 ohm (2927DD)
R567	24366330	CF, 33 ohm (3327DD)
R568	24366102	CF, 1k ohm
R569	24366101	CF, 100 ohm
R570	24366362	CF, 3600 ohm (2927DD)
R570	24366112	CF, 1100 ohm (3327DD)
R571	24366362	CF, 3600 ohm (2927DD)
R571	24366112	CF, 1100 ohm (3327DD)
R572	24366362	CF, 3600 ohm (2927DD)
R572	24366112	CF, 1100 ohm (3327DD)
R580	24366473	CF, 47k ohm
R591	24383153	OMF, 15k ohm, 2W
R592	24383153	OMF, 15k ohm, 2W
R593	24383153	OMF, 15k ohm, 2W
R594	24383153	OMF, 15k ohm, 2W (3327DD)
R595	24383153	OMF, 15k ohm, 2W (3327DD)
R596	24383153	OMF, 15k ohm, 2W (3327DD)
R601	24553100	OMF, 10 ohm, 1W
R602	24872153	Chip, 15k ohm, 1/16W
R603	24872562	Chip, 5600 ohm, 1/16W
R604	24872331	Chip, 330 ohm, 1/16W
R605	24872102	Chip, 1k ohm, 1/16W
R606	24872101	Chip, 100 ohm, 1/16W
R607	24872361	Chip, 360 ohm, 1/16W
R608	24872102	Chip, 1k ohm, 1/16W
R609	24872101	Chip, 100 ohm, 1/16W
R665	24552181	OMF, 180 ohm, 1/2W
R666	24552181	OMF, 180 ohm, 1/2W
R670	24366103	CF, 10k ohm
R671	24366512	CF, 5100 ohm
R672	24366103	CF, 10k ohm
R673	24366182	CF, 1800 ohm
R674	24366105	CF, 1M ohm
R675	24366182	CF, 1800 ohm
R681	24366103	CF, 10k ohm
R682	24366229	CF, 2.2 ohm
R683	24366229	CF, 2.2 ohm
R684	24366229	CF, 2.2 ohm
R701	24366153	CF, 15k ohm
R703	24366511	CF, 510 ohm
R704	24366102	CF, 1k ohm
R705	24366222	CF, 2200 ohm
R706	24366102	CF, 1k ohm
R708	24366102	CF, 1k ohm
R713	24366122	CF, 1200 ohm
R714	24552680	OMF, 68 ohm, 1/2W
R715	24366203	CF, 20k ohm
R716	24366273	CF, 27k ohm

Location No.	Part No.	Description
R717	24366333	CF, 33k ohm
R718	24366222	CF, 2200 ohm
R721(U903)	24366102	CF, 1k ohm
R721(U902)	24366101	CF, 100 ohm
R722	24552471	OMF, 470 ohm, 1/2W
R723	24366471	CF, 470 ohm
R724	24366470	CF, 47 ohm
R725	24366182	CF, 1800 ohm
R726	24366102	CF, 1k ohm
R730	24552100	OMF, 10 ohm, 1/2W
R731	24552301	OMF, 300 ohm, 1/2W
R732	24366820	CF, 82 ohm
R733	24366683	CF, 68k ohm
R734	24366820	CF, 82 ohm
R735	24366683	CF, 68k ohm
R736	24552430	OMF, 43 ohm, 1/2W
R737	24366152	CF, 1500 ohm
R738	24366123	CF, 12k ohm
R739	24366152	CF, 1500 ohm
R740	24552430	OMF, 43 ohm, 1/2W
R741	24321279	OMF, 2.7 ohm, 1/2W
R742	24321279	OMF, 2.7 ohm, 1/2W
R743	24554221	OMF, 220 ohm, 2W
R744	24366122	CF, 1200 ohm
R745	24366122	CF, 1200 ohm
R746	24366101	CF, 100 ohm
R757	24366332	CF, 3300 ohm
R758	24366101	CF, 100 ohm
R759	24366101	CF, 100 ohm
R778	24366471	CF, 470 ohm
R779	24366102	CF, 1k ohm
R780	24366562	CF, 5600 ohm
R781	24366102	CF, 1k ohm
⚠R801	24004914	CC, 5.6M ohm, 1/2W
R810	24568271	Cement, 5.6M ohm, 1/2W
R821	24321229	OMF, 2.2 ohm, 1/2W
R822	24510180	Cement, 18 ohm, 5W
R823	24376102	CF, 1k ohm, 1/2W
R825	24366561	CF, 560 ohm
R826	24383560	OMF, 56 ohm, 2W
R827	24366561	CF, 560 ohm
R828	24377394	CF, 390k ohm, 1W
R829	24384563	OMF, 56k ohm, 3W
R830	24366682	CF, 6800 ohm
R832	24552122	OMF, 1200 ohm, 1/2W
R833	24366510	CF, 51 ohm
R835	24552391	OMF, 390 ohm, 1/2W
R836	24552221	OMF, 220 ohm, 1/2W
R837	24366223	CF, 22k ohm
R838	24322568	OMF, 0.56 ohm, 1W
R839	24322568	OMF, 0.56 ohm, 1W
R840	24366102	CF, 1k ohm
R841	24546279	FR, 2.7 ohm, 1/2W
R842	24366242	CF, 2400 ohm
R843	24383682	OMF, 6800 ohm, 2W
R844	24366182	CF, 1800 ohm
R845	24321229	OMF, 2.2 ohm, 1/2W
R848	24321228	OMF, 0.22 ohm, 1/2W
R849	24552102	OMF, 1k ohm, 1/2W
R850	24366102	CF, 1k ohm
R853	24366222	CF, 2200 ohm
R854	24367332	CF, 3300 ohm, ±2%
R855	24366102	CF, 1k ohm
R856	24366561	CF, 560 ohm

Location No.	Part No.	Description
R857	24366271	CF, 270 ohm
R858	24366681	CF, 680 ohm
R859	24367822	CF, 8200 ohm, ±2%
R862	24376122	CF, 1200 ohm, 1/2W
R863	24366102	CF, 1k ohm
R864	24546279	FR, 2.7 ohm, 1/2W
R867	24366102	CF, 1k ohm
R868	24377274	CF, 270k ohm, 1W
R869	24367133	CF, 13k ohm, ±2%
R870	24383133	OMF, 13k ohm, 2W
R872	24007864	Cement, 3 ohm, 15W
R873	24366333	CF, 33k ohm
R874	24366181	CF, 180 ohm
R875	24366111	CF, 110 ohm
R876	24366101	CF, 100 ohm
R877	24366222	CF, 2200 ohm
R878	24531680	FR, 68 ohm, 1/2W
R879	24366472	CF, 4700 ohm
R880	24366272	CF, 2700 ohm
R881	24366333	CF, 33k ohm
R883	24366332	CF, 3300 ohm
R884	24321919	OMF, 9.1 ohm, 1/2W
⚠R890	24000875	PTC Thermistor, 18 ohm, ±20%, 290V
R892	24366102	CF, 1k ohm
R893	24366103	CF, 10k ohm
R895	24376681	CF, 680 ohm, 1/2W
R896	24366332	CF, 3300 ohm
R897	24532100	FR, 10 ohm, 1W
R898	24569270	Cement, 27 ohm, 10W
R901	24946272	CC, 2700 ohm, ±10%, 1/2W
R902	24946272	CC, 2700 ohm, ±10%, 1/2W
R903	24946272	CC, 2700 ohm, ±10%, 1/2W
R920	24000568	FR, 4.7 ohm, 1W
RA01	24366183	CF, 18k ohm
RA02	24366562	CF, 5600 ohm
RA03	24366103	CF, 10k ohm
RA04	24366223	CF, 22k ohm
RA05	24366223	CF, 22k ohm
RA06	24366223	CF, 22k ohm
RA07	24366222	CF, 2200 ohm
RA08	24366223	CF, 22k ohm
RA10	24366223	CF, 22k ohm
RA11	24366103	CF, 10k ohm
RA15	24366103	CF, 10k ohm
RA16	24366103	CF, 10k ohm
RA17	24366102	CF, 1k ohm
RA18	24366473	CF, 47k ohm (2927DD)
RA18	24366102	CF, 1k ohm (3327DD)
RA19	24366472	CF, 4700 ohm (2927DD)
RA20	24366473	CF, 47k ohm
RA21	24366561	CF, 560 ohm
RA22	24366561	CF, 560 ohm
RA29	24366103	CF, 10k ohm
RA32	24366473	CF, 47k ohm
RA33	24366473	CF, 47k ohm
RA37	24366473	CF, 47k ohm
RA38	24366104	CF, 100k ohm
RA40	24366102	CF, 1k ohm
RA41	24366102	CF, 1k ohm
RA45	24366183	CF, 18k ohm
RA46	24366123	CF, 12k ohm
RA47	24366152	CF, 1500 ohm
RA48	24366473	CF, 47k ohm

Location No.	Part No.	Description
RA56(U904)	24366123	CF, 12k ohm
RA56(U902)	24366473	CF, 47k ohm
RA57(U902)	24366332	CF, 3300 ohm
RA57(U904)	24366473	CF, 47k ohm
RA58	24366152	CF, 1500 ohm
RA59(U902)	24366332	CF, 3300 ohm
RA59(U904)	24366473	CF, 47k ohm
RA60	24366332	CF, 3300 ohm
RA61	24366332	CF, 3300 ohm
RA62	24366103	CF, 10k ohm
RA63	24366103	CF, 10k ohm
RA65	24366332	CF, 3300 ohm
RA66	24366102	CF, 1k ohm
RA67	24366153	CF, 15k ohm
RA68	24366102	CF, 1k ohm
RA69	24366103	CF, 10k ohm
RA70	24366561	CF, 560 ohm
RA71	24366564	CF, 560k ohm
RA72	24366563	CF, 56k ohm
RA73	24366123	CF, 12k ohm
RA74	24366472	CF, 4700 ohm
RA75	24366392	CF, 3900 ohm
RA76	24366223	CF, 22k ohm
RA77	24366152	CF, 1500 ohm
RA78	24366103	CF, 10k ohm
RA79	24366153	CF, 15k ohm
RA80	24366333	CF, 33k ohm
RA81	24366101	CF, 100 ohm
RA82	24366101	CF, 100 ohm
RA83	24366103	CF, 10k ohm
RA84	24366103	CF, 10k ohm
RA85	24366103	CF, 10k ohm
RA86	24366103	CF, 10k ohm
RA87	24366103	CF, 10k ohm
RA89	24366471	CF, 470 ohm
RA90	24366333	CF, 33k ohm
RA96	24366102	CF, 1k ohm
RA97	24366101	CF, 100 ohm
RA98	24366101	CF, 100 ohm
RB01	24366472	CF, 4700 ohm
RB02	24366332	CF, 3300 ohm
RB03	24366223	CF, 22k ohm
RB04	24366103	CF, 10k ohm
RB05(U904)	24366103	CF, 10k ohm
RB05(U902)	24366332	CF, 3300 ohm
RB06	24366473	CF, 47k ohm
RB11	24366331	CF, 330 ohm
RB12	24366331	CF, 330 ohm
RB14	24366102	CF, 1k ohm
RB15	24366472	CF, 4700 ohm
RB17	24366102	CF, 1k ohm
RB18	24366102	CF, 1k ohm
RB19	24366102	CF, 1k ohm
RB21(U903)	24366103	CF, 10k ohm
RB21(U902)	24366561	CF, 560 ohm
RB22(U903)	24366473	CF, 47k ohm
RB22(U902)	24366561	CF, 560 ohm
RB23(U903)	24366103	CF, 10k ohm
RB23(U902)	24366751	CF, 750 ohm
RB24	24366103	CF, 10k ohm
RB25	24366103	CF, 10k ohm
RB26	24366103	CF, 10k ohm
RB27	24366103	CF, 10k ohm
RB29	24366103	CF, 10k ohm

Location No.	Part No.	Description
RB30	24366102	CF, 1k ohm
RB31	24366102	CF, 1k ohm
RD01	24531150	FR, 15 ohm, 1/2W
RD02	24323229	OMF, 2.2 ohm, 2W
RD03	24366562	CF, 5600 ohm
RD04	24366102	CF, 1k ohm
RD05	24552332	OMF, 3300 ohm, 1/2W
RD06	24366242	CF, 2400 ohm
RD07	24366273	CF, 27k ohm
RD08	24366114	CF, 110k ohm
RD09	24366153	CF, 15k ohm
RD10	24366153	CF, 15k ohm
RE51	24366391	CF, 390 ohm
RE54	24366103	CF, 10k ohm
RE56	24366303	CF, 30k ohm
RE60	24366222	CF, 2200 ohm
RE61	24366393	CF, 39k ohm
RE63	24366474	CF, 470k ohm
RE68	24366564	CF, 560k ohm
RE70	24366101	CF, 100 ohm
RE72	24366102	CF, 1k ohm
RE73	24366101	CF, 100 ohm
RE74	24366474	CF, 470k ohm
RE76	24366153	CF, 15k ohm
RE77	24366332	CF, 3300 ohm
RE78	24366153	CF, 15k ohm
RF01	24872101	Chip, 100 ohm, 1/16W
RF02	24872152	Chip, 1500 ohm, 1/16W
RF03	24872103	Chip, 10k ohm, 1/16W
RF05	24872101	Chip, 100 ohm, 1/16W
RF06	24872152	Chip, 1500 ohm, 1/16W
RF07	24872101	Chip, 100 ohm, 1/16W
RF08	24872152	Chip, 1500 ohm, 1/16W
RF09	24872101	Chip, 100 ohm, 1/16W
RF10	24872152	Chip, 1500 ohm, 1/16W
RF11	24872683	Chip, 68k ohm, 1/16W
RF12	24872101	Chip, 100 ohm, 1/16W
RF13	24872101	Chip, 100 ohm, 1/16W
RF14	24872122	Chip, 1200 ohm, 1/16W
RF15	24872103	Chip, 10k ohm, 1/16W
RF16	24872331	Chip, 330 ohm, 1/16W
RF19	24872101	Chip, 100 ohm, 1/16W
RF20	24872331	Chip, 330 ohm, 1/16W
RF24	24872332	Chip, 3300 ohm, 1/16W
RF35	24872472	Chip, 4700 ohm, 1/16W
RG01	24872561	Chip, 560 ohm, 1/16W
RG02	24872563	Chip, 56k ohm, 1/16W
RG03	24872563	Chip, 56k ohm, 1/16W
RG04	24872102	Chip, 1k ohm, 1/16W
RG05	24872102	Chip, 1k ohm, 1/16W
RG06	24872821	Chip, 820 ohm, 1/16W
RG07	24872221	Chip, 220 ohm, 1/16W
RG08	24872102	Chip, 1k ohm, 1/16W
RG09	24872821	Chip, 820 ohm, 1/16W
RG10	24872472	Chip, 4700 ohm, 1/16W
RG11	24872472	Chip, 4700 ohm, 1/16W
RG12	24872472	Chip, 4700 ohm, 1/16W
RG13	24872472	Chip, 4700 ohm, 1/16W
RG14	24872472	Chip, 4700 ohm, 1/16W
RG18	24872223	Chip, 22k ohm, 1/16W
RG19	24872473	Chip, 47k ohm, 1/16W
RG20	24872223	Chip, 22k ohm, 1/16W
RG21	24872473	Chip, 47k ohm, 1/16W
RG22	24872223	Chip, 22k ohm, 1/16W

Location No.	Part No.	Description
RG23	24872473	Chip, 47k ohm, 1/16W
RG25	24366394	CF, 390k ohm
RG26	24553680	OMF, 68 ohm, 1W
RG28	24552431	OMF, 430 ohm, 1/2W
RG29(U903)	24366101	CF, 100 ohm
RG29(UG01)	24872105	Chip, 1M ohm, 1/16W
RG30(UG01)	24872223	Chip, 22k ohm, 1/16W
RG30(U903)	24366101	CF, 100 ohm
RG31	24872272	Chip, 2700 ohm, 1/16W
RG32(U903)	24366103	CF, 10k ohm
RG32(UG01)	24872222	Chip, 2200 ohm, 1/16W
RG33	24366101	CF, 100 ohm
RG34	24366101	CF, 100 ohm
RG35	24366101	CF, 100 ohm
RG36	24366101	CF, 100 ohm
RG43	24872102	Chip, 1k ohm, 1/16W
RG44	24872153	Chip, 15k ohm, 1/16W
RG45(UG01)	24872332	Chip, 3300 ohm, 1/16W
RG45(U903)	24366473	CF, 47k ohm
RG46(UG01)	24872472	Chip, 4700 ohm, 1/16W
RG46(U903)	24366473	CF, 47k ohm
RG47(U903)	24366103	CF, 10k ohm
RG47(UG01)	24872272	Chip, 2700 ohm, 1/16W
RG48(U903)	24366103	CF, 10k ohm
RG48(UG01)	24872101	Chip, 100 ohm, 1/16W
RG49(UG01)	24066927	VR, 5k ohm, 1/10W
RG49(U903)	24366223	CF, 22k ohm
RG50(U903)	24366223	CF, 22k ohm
RG50(UG01)	24872302	Chip, 3k ohm, 1/16W
RG55	24872471	Chip, 470 ohm, 1/16W
RG56	24872102	Chip, 1k ohm, 1/16W
RG57	24872153	Chip, 15k ohm, 1/16W
RG58	24872152	Chip, 1500 ohm, 1/16W
RG59	24872162	Chip, 1600 ohm, 1/16W
RG60	24872472	Chip, 4700 ohm, 1/16W
RG61	24872563	Chip, 56k ohm, 1/16W
RG62	24872103	Chip, 10k ohm, 1/16W
RG63	24872223	Chip, 22k ohm, 1/16W
RG64	24872101	Chip, 100 ohm, 1/16W
RG65	24872101	Chip, 100 ohm, 1/16W
RG66	24545100	FR, 10 ohm, 1/4W
RG67	24872102	Chip, 1k ohm, 1/16W
RG68	24872153	Chip, 15k ohm, 1/16W
RG98	24872562	Chip, 5600 ohm, 1/16W
RG99	24872472	Chip, 4700 ohm, 1/16W
RJ05	24000824	Chip Jumper, 2125 type
RJ06	24000824	Chip Jumper, 2125 type
RJ51	24000824	Chip Jumper, 2125 type
RJ52	24000824	Chip Jumper, 2125 type
RJ53	24000824	Chip Jumper, 2125 type
RJ54	24000824	Chip Jumper, 2125 type
RJ55	24000824	Chip Jumper, 2125 type
RJ56	24000824	Chip Jumper, 2125 type
RJ59	24000824	Chip Jumper, 2125 type
RJ60	24000824	Chip Jumper, 2125 type
RJ76	24000824	Chip Jumper, 2125 type
RJ78	24000824	Chip Jumper, 2125 type
RJ79	24000824	Chip Jumper, 2125 type
RJ89	24000824	Chip Jumper, 2125 type
RJ93	24000824	Chip Jumper, 2125 type
RJ94	24000824	Chip Jumper, 2125 type
RJ95	24000824	Chip Jumper, 2125 type
RM03	24366272	CF, 2700 ohm
RM04	24366432	CF, 4300 ohm

Location No.	Part No.	Description
RM05	24366221	CF, 220 ohm
RM06	24366271	CF, 270 ohm
RM07	24366475	CF, 4.7M ohm
RM08	24366333	CF, 33k ohm
RM18(U902)	24366105	CF, 1M ohm
RM18(U904)	24366223	CF, 22k ohm
RN02	24366822	CF, 8200 ohm
RN07	24366101	CF, 100 ohm
RN14	24366242	CF, 2400 ohm
RN15	24366243	CF, 24k ohm
RN16(U902)	24366473	CF, 47k ohm
RN16(U904)	24366103	CF, 10k ohm
RN17(U902)	24366821	CF, 820 ohm
RN17(U904)	24366103	CF, 10k ohm
RN18	24366473	CF, 47k ohm
RN19	24366103	CF, 10k ohm
RN20	24366473	CF, 47k ohm
RN21	24366473	CF, 47k ohm
RN22	24366473	CF, 47k ohm
RN23	24366473	CF, 47k ohm
RN24	24366332	CF, 3300 ohm
RN27	24366473	CF, 47k ohm
RN32	24366243	CF, 24k ohm
RN33	24366104	CF, 100k ohm
RN34	24366104	CF, 100k ohm
RN86	24366473	CF, 47k ohm
RS01	24366393	CF, 39k ohm
RS03	24366102	CF, 1k ohm
RS04	24366163	CF, 16k ohm
RS07	24366104	CF, 100k ohm
RS08	24366102	CF, 1k ohm
RS12	24366912	CF, 9100 ohm
RS13	24366103	CF, 10k ohm
RS20	24366103	CF, 10k ohm
RS21	24366103	CF, 10k ohm
RS23	24366473	CF, 47k ohm
RS47	24366103	CF, 10k ohm
RS48	24366104	CF, 100k ohm
RT06	24366273	CF, 27k ohm
RT07	24366273	CF, 27k ohm
RT08	24366103	CF, 10k ohm
RT09	24366103	CF, 10k ohm
RT12	24366913	CF, 91k ohm
RT14	24366203	CF, 20k ohm
RT17	24366203	CF, 20k ohm
RT19	24366162	CF, 1600 ohm
RT20	24366302	CF, 3k ohm
RT21	24366562	CF, 5600 ohm
RT22	24366332	CF, 3300 ohm
RT23	24366332	CF, 3300 ohm
RT24	24366752	CF, 7500 ohm
RT28	24366123	CF, 12k ohm
RT40	24366102	CF, 1k ohm
RT41	24366472	CF, 4700 ohm
RT42	24366301	CF, 300 ohm
RT43	24366132	CF, 1300 ohm
RT44	24366132	CF, 1300 ohm
RT45	24366682	CF, 6800 ohm
RT46	24366332	CF, 3300 ohm
RT47	24366751	CF, 750 ohm
RT51	24366331	CF, 330 ohm
RT52	24366682	CF, 6800 ohm
RT53	24366682	CF, 6800 ohm
RV02	24366101	CF, 100 ohm

Location No.	Part No.	Description
RV03	24366101	CF, 100 ohm
RV04	24366101	CF, 100 ohm
RV05	24366101	CF, 100 ohm
RV06	24366101	CF, 100 ohm
RV07	24366101	CF, 100 ohm
RV08	24366101	CF, 100 ohm
RV09	24366101	CF, 100 ohm
RV10	24366101	CF, 100 ohm
RV11	24366101	CF, 100 ohm
RV12	24366101	CF, 100 ohm
RV16	24366104	CF, 100k ohm
RV17	24366104	CF, 100k ohm
RV18	24366104	CF, 100k ohm
RV19	24366104	CF, 100k ohm
RV20	24366104	CF, 100k ohm
RV21	24366104	CF, 100k ohm
RV22	24366104	CF, 100k ohm
RV23	24366104	CF, 100k ohm
RV26	24366680	CF, 68 ohm
RV27	24366910	CF, 91 ohm
RV29	24366820	CF, 82 ohm
RV31	24366820	CF, 82 ohm
RV32	24366820	CF, 82 ohm
RV34	24366161	CF, 160 ohm
RV39	24366910	CF, 91 ohm
RV40	24366680	CF, 68 ohm
RV41	24366103	CF, 10k ohm
RV42	24366750	CF, 75 ohm
RV43	24366620	CF, 62 ohm
RV44	24366620	CF, 62 ohm
RV45	24366620	CF, 62 ohm
RV56	24552221	OMF, 220 ohm, 1/2W
RV60	24552430	OMF, 43 ohm, 1/2W
RV63	24366130	CF, 13 ohm
RV64	24366130	CF, 13 ohm
RV65	24366130	CF, 13 ohm
RV71	24366101	CF, 100 ohm
RV73	24366910	CF, 91 ohm
RV74	24366103	CF, 10k ohm
RV75	24366561	CF, 560 ohm
RV76	24366471	CF, 470 ohm
RV77	24366101	CF, 100 ohm
RV78	24366101	CF, 100 ohm
RV79	24552391	OMF, 390 ohm, 1/2W
RV80	24366471	CF, 470 ohm
RV81	24366471	CF, 470 ohm
RV82	24366104	CF, 100k ohm
RV83	24366104	CF, 100k ohm
RV84	24366102	CF, 1k ohm
RV85	24366102	CF, 1k ohm
RV99	24366473	CF, 47k ohm
RW01	24366101	CF, 100 ohm
RW13	24366102	CF, 1k ohm
RW14	24366102	CF, 1k ohm
RW15	24366104	CF, 100k ohm
RW16	24366104	CF, 100k ohm
RW18	24366680	CF, 68 ohm
RW26	24366104	CF, 100k ohm
RW28	24366472	CF, 4700 ohm
RW29	24366104	CF, 100k ohm
RW30	24553680	OMF, 68 ohm, 1W
RW31	24366152	CF, 1500 ohm
RW32	24366152	CF, 1500 ohm
RW33	24366223	CF, 22k ohm

Location No.	Part No.	Description
RW34	24366273	CF, 27k ohm
RW35	24366223	CF, 22k ohm
RW36	24366273	CF, 27k ohm
RW40	24366103	CF, 10k ohm
RW50	24382101	OMF, 100 ohm, 1W
RW51	24366122	CF, 1200 ohm
RW52	24366681	CF, 680 ohm
RW53	24366912	CF, 9100 ohm
RW54	24366273	CF, 27k ohm
RW55	24366122	CF, 1200 ohm
RW56	24366681	CF, 680 ohm
RW57	24366912	CF, 9100 ohm
RW58	24366273	CF, 27k ohm
RW80	24366271	CF, 270 ohm
RW81	24366271	CF, 270 ohm
RW83	24552221	OMF, 220 ohm, 1/2W
RW87	24366102	CF, 1k ohm
RW88	24366102	CF, 1k ohm
RX31	24366102	CF, 1k ohm
RX32	24366821	CF, 820 ohm
RX34	24366222	CF, 2200 ohm
RX35	24366152	CF, 1500 ohm
RX36	24366511	CF, 510 ohm
RX52	24366101	CF, 100 ohm
RX53	24366101	CF, 100 ohm
RX54	24366101	CF, 100 ohm
RX55	24366181	CF, 180 ohm
RX56	24366181	CF, 180 ohm
RX57	24366181	CF, 180 ohm
RX58	24366223	CF, 22k ohm
RX59	24366223	CF, 22k ohm
RX60	24366223	CF, 22k ohm
RX63	24366101	CF, 100 ohm
RX64	24366101	CF, 100 ohm
RX65	24366101	CF, 100 ohm
RX68	24366822	CF, 8200 ohm
RX69	24366102	CF, 1k ohm
RY66	24366473	CF, 47k ohm
RY67	24366473	CF, 47k ohm
RZ01	24366681	CF, 680 ohm
RZ02	24366132	CF, 1300 ohm
RZ03	24366151	CF, 150 ohm
RZ04	24366561	CF, 560 ohm

COILS & TRANSFORMERS

Location No.	Part No.	Description
L101	23238562	Coil, Peaking, TRF4109AJ
L102	23262951	Coil, RF Choke, TRF1019
L103	23261985	Coil, RF Choke, TRF9221
L104	23237987	Coil, Peaking, TRF4100AC
L105	23237987	Coil, Peaking, TRF4100AC
L106	23262719	Coil, IF, TRF1132D
L107	23262821	Coil, PIF, TRF1069
L108	23237987	Coil, Peaking, TRF4100AC
L109	23262813	Coil, IF, TRF1077D
L111	23238934	Coil, Peaking, TRF4109AC
L112	23237987	Coil, Peaking, TRF4100AC
L113	23262658	Coil, IF, TRF1153D
L115	23237987	Coil, Peaking, TRF4100AC
L117	23237987	Coil, Peaking, TRF4100AC
L119	23237983	Coil, Peaking, TRF4220AC
L180	23238714	Coil, Peaking, TRF4100AJ
L230	23238917	Coil, Peaking, TRF4270AC
L260	23238914	Coil, Peaking, TRF4470AC
L261	23238712	Coil, Peaking, TRF4150AJ

Location No.	Part No.	Description
L301	23103859	Coil (Ferrite Bead), TEM2011
L302	23238910	Coil, Peaking, TRF4101AC
L315	23238922	Coil, Peaking, TRF4100AC
L406	23103859	Coil (Ferrite Bead), TEM2011
L412	23221684	Coil, Choke, TLN3191D
L414	23103859	Coil (Ferrite Bead), TEM2011
L421	23211897	Coil, Choke, AT4043/100T (2927DD)
L422	23221968	Coil, Choke, TLN3010 (2927DD)
L422	23221894	Coil, Choke, TLN3063 (3327DD)
L441	23233947	Coil, Linearity, TLN2144G
⚠L462	----------	DY, Supplied with V901
L503	23238714	Coil, Peaking, TRF4100AJ
L505	23221685	Coil, Choke, TLN3193
L510	23289100	Coil, Peaking, TRF4100AF
L551	23250972	Coil, 1H-Delay Matching, TRF5418D
L590	23238906	Coil, Peaking, TRF4221AC
L681	23238714	Coil, Peaking, TRF4100AJ
L682	23238922	Coil, Peaking, TRF4100AC
L702	23261974	Coil, Choke, HC5-035
L703	23238918	Coil, Peaking, TRF4220AC
L704	23103859	Coil (Ferrite Bead), TEM2011
L705	23103859	Coil (Ferrite Bead), TEM2011
L721	23238706	Coil, Peaking, TRF4470AJ
L766	23238706	Coil, Peaking, TRF4470AJ
L820	23222694	Coil, TLN2026
L823	23221747	Coil, Choke, TRF9253D
L824	23103859	Coil (Ferrite Bead), TEM2011
L825	23103859	Coil (Ferrite Bead), TEM2011
L826	23221746	Coil, Choke, TLN3155D
L827	23238929	Coil, Peaking, TRF4279AC
L828	23237770	Coil, Peaking, TRF4R22AC
L834	23103859	Coil (Ferrite Bead), TEM2011
L841	23103859	Coil (Ferrite Bead), TEM2011
L842	23103859	Coil (Ferrite Bead), TEM2011
L844	23103859	Coil (Ferrite Bead), TEM2011
L866	23238930	Coil, Peaking, TRF4229AC
L871	23103859	Coil (Ferrite Bead), TEM2011
L880	23222694	Coil, TLN2026
L881	23222694	Coil, TLN2026
⚠L901	23200211	Coil, Degaussing, TSB-2337AR (2927DD)
⚠L901	23200215	Coil, Degaussing, TSB-2340AR (3327DD)
LA01	23238922	Coil, Peaking, TRF4100AC
LA04	23238714	Coil, Peaking, TRF4100AJ
LA05	23238922	Coil, Peaking, TRF4100AC
LA12	23221685	Coil, Choke, TLN3193
LB01	23262001	Coil, IF, TRF1166D
LB08	23238910	Coil, Peaking, TRF4101AC
LD02	23221896	Coil, Choke, TLN3061 (2927DD)
LD02	23221686	Coil, Choke, TLN3197 (3327DD)
LF02	23238920	Coil, Peaking, TRF4150AC
LF03	23238922	Coil, Peaking, TRF4100AC
LF04	23238922	Coil, Peaking, TRF4100AC
LF05	23238922	Coil, Peaking, TRF4100AC
LF06	23238920	Coil, Peaking, TRF4150AC
LF07	23103941	Coil (Ferrite Bead), TEM2000
LF08	23238714	Coil, Peaking, TRF4100AJ
LF09	23238922	Coil, Peaking, TRF4100AC
LF10	23103941	Coil (Ferrite Bead), TEM2000
LF11	23103941	Coil (Ferrite Bead), TEM2000
LG01	23237986	Coil, Peaking, TRF4120AC

Location No.	Part No.	Description
LG03	23232946	Coil, Variable, TRF3073D
LG04	23232946	Coil, Variable, TRF3073D
LG05	23232946	Coil, Variable, TRF3073D
LG06	23262808	Coil, IF, TRF1082
LM01	23262797	Coil, IF, TRF1093D
LM02	23262002	Coil, IF, TRF1167D
LM03	23262002	Coil, IF, TRF1167D
LM04	23262798	Coil, IF, TRF1092D
LN02	23238708	Coil, Peaking, TRF4330AJ
LT07	23238714	Coil, Peaking, TRF4100AJ
LZ01	23238915	Coil, Peaking, TRF4390AC
LZ02	23238912	Coil, Peaking, TRF4680AC
T101	23232002	Coil, Variable, TRF3520D
T102	23262843	Coil, PIF Trap, TRF1457D
⚠T401	23224336	Transformer, Horiz. Drive, TLN1083
⚠T461	23236432	Transformer, Flyback, TFB4110AD (2927DD)
⚠T461	23236438	Transformer, Flyback, TFB4110BD (3327DD)
⚠T801	23211891	Line Filter, TRF3164
⚠T802	23211928	Line Filter, TRF3129
⚠T803	23217165	Transformer, Converter, 10006180

SEMICONDUCTORS

IC101	23318391	IC, AN5179K
IC102	B0372560	IC, TA78L005AP
IC103	B0372960	IC, TA78L009AP
IC301	B0378560	IC, TA8427K
IC302	B0384680	IC, TA8859P
IC408	23319314	IC, μPC2412HF
IC501	B0383970	IC, TA8783N
IC670	B0377305	IC, TA8218AH
IC835	23318299	IC, L78MR05-FA
ICA01	23904042	IC, CXP80424-144
ICA07	23319016	IC, μPD6254CX
ICB05	B0470942	IC, TC4094BP
ICE02	23318244	IC, CX20125
ICF01	23904016	IC, SAA5231/V8
ICF02	23318383	IC, SAA5243P/E
ICF03	23319001	IC, IMS1630LP12
ICG01	23319952	IC, TDA6620
ICG02	B0383400	IC, TA8710S
ICG03	B0325290	IC, TA7337P
ICG04	B0325290	IC, TA7337P
ICG07	B0383935	IC, TA8776N
ICG10	23319808	IC, M5218AP
ICS12	23319808	IC, M5218AP
ICT01	B0384370	IC, TA8814N
ICV01	B0383941	IC, TA8777N FA-1
ICV05	B0372960	IC, TA78L009AP
ICX07	B0372960	IC, TA78L009AP
ICX50	B0383933	IC, TA8775AN
Q105	A6359860	Transistor, 2SC3326-A
Q106	A6357139	Transistor, 2SC3125 FA-6
Q107	A6335477	Transistor, 2SC2712-Y
Q108	A6357139	Transistor, 2SC3125 FA-6
Q109	A6357139	Transistor, 2SC3125 FA-6
Q110	A6541130	Transistor, 2SA1162-Y
Q112	A6043342	Transistor, 2SK209GR
Q113	A6541130	Transistor, 2SA1162-Y
Q115	A6317440	Transistor, 2SC1815-Y
Q116	A6335477	Transistor, 2SC2712-Y

Location No.	Part No.	Description
Q117	A6335477	Transistor, 2SC2712-Y
Q118	A6043342	Transistor, 2SK209GR
Q119	A6541130	Transistor, 2SA1162-Y
Q120	A6335477	Transistor, 2SC2712-Y
Q190	A6534053	Transistor, 2SA1015-Y(TE)
Q191	A6317440	Transistor, 2SC1815-Y
Q192	A6534053	Transistor, 2SA1015-Y(TE)
Q202	A6534053	Transistor, 2SA1015-Y(TE)
Q203	A6342206	Transistor, 2SC2878-A(TE)
Q231	A6317440	Transistor, 2SC1815-Y
Q240	A6342206	Transistor, 2SC2878-A(TE)
Q261	A6534053	Transistor, 2SA1015-Y(TE)
Q263	A6317440	Transistor, 2SC1815-Y
Q265	A6342206	Transistor, 2SC2878-A(TE)
Q303	A6333346	Transistor, 2SC2655-Y(C)
Q304	A6333346	Transistor, 2SC2655-Y(C)
Q305	A6317764	Transistor, 2SC1815-GR(T
Q402	A678971D	Transistor, 2SC1569 FA-5
⚠Q404	A6872801	Transistor, 2SD2253
Q430	A6317440	Transistor, 2SC1815-Y
Q470	A6547250	Transistor, 2SA1320
Q505	A6363200	Transistor, 2SC3619 (2927DD)
Q505	A6319400	Transistor, 2SC2068 (3327DD)
Q506	A6317440	Transistor, 2SC1815-Y
Q507	A6363200	Transistor, 2SC3619 (2927DD)
Q507	A6319400	Transistor, 2SC2068 (3327DD)
Q508	A6317440	Transistor, 2SC1815-Y
Q509	A6363200	Transistor, 2SC3619 (2927DD)
Q509	A6319400	Transistor, 2SC2068 (3327DD)
Q510	A6317440	Transistor, 2SC1815-Y
Q511	A6342206	Transistor, 2SC2878-A(TE)
Q514	A6509127	Transistor, 2SA562TM-O
Q546	A6317440	Transistor, 2SC1815-Y
Q590	A6321265	Transistor, 2SC2120-Y(TE)
Q601	A6335477	Transistor, 2SC2712-Y
Q602	A6335477	Transistor, 2SC2712-Y
Q701	23114528	Transistor, 2SC1740S-Q
Q704	A6734590	Transistor, 2SC752(G)TM-Y
Q705	23114528	Transistor, 2SC1740S-Q
Q706	23114528	Transistor, 2SC1740S-Q
Q707	A6734590	Transistor, 2SC752(G)TM-Y
Q709	23114528	Transistor, 2SC1740S-Q
Q710	23114530	Transistor, 2SA933S-Q
Q711	A6546665	Transistor, 2SA1306-Y
Q712	A6359135	Transistor, 2SC3298A-Y
Q715	A6002030	Transistor, RN1203
Q720	A6317440	Transistor, 2SC1815-Y
Q764	A6534053	Transistor, 2SA1015-Y(TE)
Q766	A6317440	Transistor, 2SC1815-Y
Q820	A6333346	Transistor, 2SC2655-Y(C)
Q821	A6330438	Transistor, 2SC2500-C(C)
Q822	A6542312	Transistor, 2SA1160-B(C)
Q823	23314777	Transistor, 2SC3927(A)
Q824	A6317764	Transistor, 2SC1815-GR
Q825	A6317440	Transistor, 2SC1815-Y
Q826	A8643106	Photo Coupler, TLP621(GR)
Q827	A6907751	Transistor, S1854
Q828	A6325067	Transistor, 2SC2230A-Y(C)
Q829	A8643106	Photo Coupler, TLP621(GR)
Q831	A6002060	Transistor, RN1206
Q832	A6534053	Transistor, 2SA1015-Y(TE)
Q834	A6002060	Transistor, RN1206
Q836	A6534053	Transistor, 2SA1015-Y(TE)
Q838	A6534053	Transistor, 2SA1015-Y(TE)

Location No.	Part No.	Description
Q839	A6509154	Transistor, 2SA562TM-Y(T)
Q840	A6317440	Transistor, 2SC1815-Y
Q841	A6534053	Transistor, 2SA1015-Y(TE)
Q842	A6534053	Transistor, 2SA1015-Y(TE)
Q860	23314141	Transistor, 2SC3852
Q861	23314141	Transistor, 2SC3852
Q870	A6333346	Transistor, 2SC2655-Y(C)
Q871	A6317440	Transistor, 2SC1815-Y
QA02	A6342206	Transistor, 2SC2878-A(TE)
QA03	A6317440	Transistor, 2SC1815-Y
QA04	A6317440	Transistor, 2SC1815-Y
QA06	A6317440	Transistor, 2SC1815-Y
QA09	A6534053	Transistor, 2SA1015-Y(TE)
QA10	A6317440	Transistor, 2SC1815-Y
QA11	A6534053	Transistor, 2SA1015-Y(TE)
QA12	A6342206	Transistor, 2SC2878-A(TE)
QA99	A6317440	Transistor, 2SC1815-Y
QB01(U902)	A6317440	Transistor, 2SC1815-Y
QB01(U904)	A6534053	Transistor, 2SA1015-Y(TE)
QB02	A6317440	Transistor, 2SC1815-Y
QB06	A6317440	Transistor, 2SC1815-Y
QB21	A6010040	Transistor, RN2004
QB22	A6342206	Transistor, 2SC2878-A(TE)
QB23	A6342206	Transistor, 2SC2878-A(TE)
QB24	A6342206	Transistor, 2SC2878-A(TE)
QB25	A6342206	Transistor, 2SC2878-A(TE)
QD01	A6625365	Transistor, 2SB688-O(BS)
QD02	A6317440	Transistor, 2SC1815-Y
QD03	A6317440	Transistor, 2SC1815-Y
QE62	A6317440	Transistor, 2SC1815-Y
QF07	A6335477	Transistor, 2SC2712-Y
QG06	A6335477	Transistor, 2SC2712-Y
QG07	A6335477	Transistor, 2SC2712-Y
QG08	A6335477	Transistor, 2SC2712-Y
QG09	A6335477	Transistor, 2SC2712-Y
QG13	A6335477	Transistor, 2SC2712-Y
QN08	A6317440	Transistor, 2SC1815-Y
QN11	A6342206	Transistor, 2SC2878-A(TE)
QN13	A6342206	Transistor, 2SC2878-A(TE)
QN14	A6342206	Transistor, 2SC2878-A(TE)
QN16	A6342206	Transistor, 2SC2878-A(TE)
QN17	A6342206	Transistor, 2SC2878-A(TE)
QS10	A6002040	Transistor, RN1204
QS14	A6342206	Transistor, 2SC2878-A(TE)
QS20	A6534053	Transistor, 2SA1015-Y(TE)
QT05	A6317440	Transistor, 2SC1815-Y
QT06	A6317440	Transistor, 2SC1815-Y
QT07	A6317440	Transistor, 2SC1815-Y
QT08	A6317440	Transistor, 2SC1815-Y
QT09	A6317440	Transistor, 2SC1815-Y
QV02	A6534053	Transistor, 2SA1015-Y(TE)
QV04	A6319311	Transistor, 2SC1959-Y(TE)
QV06	A6002030	Transistor, RN1203
QW31	A6317440	Transistor, 2SC1815-Y
QW32	A6317440	Transistor, 2SC1815-Y
QW50	A6317440	Transistor, 2SC1815-Y
QW51	A6317440	Transistor, 2SC1815-Y
QX31	A6317440	Transistor, 2SC1815-Y
QY30	A6734585	Transistor, 2SC752GTM-O
D101	A7150258	Diode, 1SS176
D102	A7150258	Diode, 1SS176
D103	A7288601	Diode, 1S2186 FA-1
D110	23115878	Diode, Zener, μPC574J, (L)
D241	23115599	Diode, 1N4148

Location No.	Part No.	Description
D242	23115599	Diode, 1N4148
D243	23115599	Diode, 1N4148
D246	23115599	Diode, 1N4148
D263	23316318	Diode, Zener, UZ7.5BSB
D301	23118095	Diode, ERB44-06
D302	23118479	Diode, BYD33J
D303	23115599	Diode, 1N4148
D304	23316291	Diode, Zener, UZ3.0BSB
D310	23115599	Diode, 1N4148
D320	23118822	Diode, ERB12-02RK
D321	23118822	Diode, ERB12-02RK
D332	24000255	Diode, SC570A
D340	23115599	Diode, 1N4148
D401	23316333	Diode, Zener, UZ12BSB
D402	23316367	Diode, Zener, UZ33BS, B
D403	23316333	Diode, Zener, UZ12BSB
D406	23118479	Diode, BYD33J
D408	23118052	Diode, RU4Z
D410	23316321	Diode, Zener, UZ8.2BSB
D471	A7801233	SCR, SF0R3G42(G5H1)
D474	23316342	Diode, Zener, UZ16BSB
D475	23316333	Diode, Zener, UZ12BSB
D590	23115599	Diode, 1N4148
D591	23115599	Diode, 1N4148
D592	23115599	Diode, 1N4148
D593	23115599	Diode, 1N4148
D594	23115599	Diode, 1N4148
D595	23115599	Diode, 1N4148
D670	23115599	Diode, 1N4148
D671	23115599	Diode, 1N4148
D672	23115599	Diode, 1N4148
D673	23115599	Diode, 1N4148
D674	23115599	Diode, 1N4148
D675	23115599	Diode, 1N4148
D704	23115599	Diode, 1N4148
D705	23115599	Diode, 1N4148
D706	A7568475	Diode, TVR-2D
D707	A7568475	Diode, TVR-2D
D711	23115599	Diode, 1N4148
D801	23316275	Diode, RBV606 LF-A
D820	23118479	Diode, BYD33J
D821	23316327	Diode, Zener, UZ10BSB
D822	23316381	Diode, RU1P
D823	23316336	Diode, Zener, UZ13BSB
D824	23118479	Diode, BYD33J
D825	23316554	Diode, 1SS146
D828	23115599	Diode, 1N4148
D829	23316184	Diode, FML-G12S
D831	23316184	Diode, FML-G12S
D832	23316406	Diode, FML-G16S
D834	23115599	Diode, 1N4148
D836	23316309	Diode, Zener, UZ5.6BSB
D838	23115599	Diode, 1N4148
D839	23115599	Diode, 1N4148
D840	23115599	Diode, 1N4148
D842	23115599	Diode, 1N4148
D844	23316332	Diode, Zener, UZ12BSA
D859	23115599	Diode, 1N4148
D861	23316309	Diode, Zener, UZ5.6BSB
D862	23115599	Diode, 1N4148
D863	23316312	Diode, Zener, UZ6.2BSB
D864	23316313	Diode, Zener, UZ6.2BSC
D873	23115599	Diode, 1N4148
D874	23316307	Diode, Zener, UZ5.1BSC

Location No.	Part No.	Description
D875	23115599	Diode, 1N4148
D877	23115599	Diode, 1N4148
D878	23316308	Diode, Zener, UZ5.6BSA
D879	23316349	Diode, Zener, UZ20BSC
D880	23118479	Diode, BYD33J
D881	23115599	Diode, 1N4148
DA01	23316310	Diode, Zener, UZ5.6BSC
DA02	23316312	Diode, Zener, UZ6.2BSB
DA03	23316312	Diode, Zener, UZ6.2BSB
DA04	23115599	Diode, 1N4148
DA05	23115599	Diode, 1N4148
DA21	23115599	Diode, 1N4148
DA29	23316312	Diode, Zener, UZ6.2BSB
DA32	23316312	Diode, Zener, UZ6.2BSB
DA33	23316312	Diode, Zener, UZ6.2BSB
DA34	23316312	Diode, Zener, UZ6.2BSB
DB02	23115599	Diode, 1N4148
DB03	23115599	Diode, 1N4148
DB07	23316312	Diode, Zener, UZ6.2BSB
DD01	23118479	Diode, BYD33J
DD02	23316582	Diode, ERC20-06
DD03	23118479	Diode, BYD33J
DD04	23115599	Diode, 1N4148
DD05	23316332	Diode, Zener, UZ12BSA
DD06	23316309	Diode, Zener, UZ5.6BSB
DD07	23316309	Diode, Zener, UZ5.6BSB
DE50	A8636541	Diode (LED), TLS153, Red
DE60	23115599	Diode, 1N4148
DE61	23115599	Diode, 1N4148
DE64	23316306	Diode, Zener, UZ5.1BSB
DG01	23115636	Diode, 1SS110
DG02	23115636	Diode, 1SS110
DG03	23115636	Diode, 1SS110
DG08	A7150258	Diode, 1SS176
DG99	A7153000	Diode, 1SS241
DS01	23115599	Diode, 1N4148
DS07	23115599	Diode, 1N4148
DT50	A8606431	Diode (LED), TLG153, Green
DV07	23115599	Diode, 1N4148
DV08	23115599	Diode, 1N4148
DX30	23115599	Diode, 1N4148
DX31	23115599	Diode, 1N4148
DX56	23115599	Diode, 1N4148
DX57	23115599	Diode, 1N4148
DX58	23115599	Diode, 1N4148

MISCELLANEOUS

B121	23712306	Screw, PP3X.5X6SZN
B202	23470008	Frame, Back Terminal
B203	23460503	Trim
B236	23845834	Clamp
E507	23845609	Clip, Plastic Rivet
⚠F801	23144898	Fuse, 3.15A
F801A	23165433	Holder, Fuse
⚠F802	23144898	Fuse, 3.15A
F802A	23165433	Holder, Fuse
⚠F803	23144829	Fuse, 1.0A, 250V (2927DD)
⚠F803	23144873	Fuse, 1.0A, 250V (3327DD)
F803A	23165433	Holder, Fuse
K901	23120303	Remote Sensor, IR-9109-K
P101A	23368006	Connector, 8P
P101B	23902743	Connector, 8P
P102A	23368006	Connector, 8P
P102B	23902743	Connector, 8P

Location No.	Part No.	Description
P410A	23902751	Connector, 8P
P410B	23368519	Connector, 8P
P411A	23902750	Connector, 7P
P411B	23368518	Connector, 7P
P661	23363607	Jack, Headphone, 3.5mm
P663	23367392	Plug, 3P
P664	23164550	Plug, 3P
P701B	23367392	Plug, 3P
⚠P801	23176705	Power Cord
PA01A	23368519	Connector, 8P
PA01B	23902751	Connector, 8P
PA02A	23368518	Connector, 7P
PA02B	23902750	Connector, 7P
PA05A	23368517	Connector, 6P
PA05B	23902749	Connector, 6P
PA06A	23368517	Connector, 6P
PA06B	23902749	Connector, 6P
PA07A	23368518	Connector, 7P
PA07B	23902750	Connector, 7P
PF01A	23367721	Connector, 9P
PF01B	23902744	Connector, 9P
PF02A	23368005	Connector, 6P
PF02B	23902741	Connector, 6P
PG01A	23368130	Connector, 10P
PG01B	23902745	Connector, 10P
PG02A	23368511	Connector, 7P
PG02B	23902742	Connector, 7P
PH01	23902604	Socket, 21P
PH02	23902604	Socket, 21P
PH03	23161571	Terminal, 4P
PH07	23363872	Pin Jack, Yellow
PH08	23363871	Pin Jack, Red
PH09	23363873	Pin Jack, White
PH10	23363872	Pin Jack, Yellow
PH11	23363871	Pin Jack, Red
PH12	23365722	Pin Jack, White, 4P
PH13	23365361	Jack, 4P
PH20	23363252	Pin Jack
PH21	23365508	Jack, Phono, 2P
PH23	23365546	Jack, 4P
PV01A	23902748	Connector, 20P
PV01B	23368520	Connector, 20P
PV02A	23902748	Connector, 20P
PV02B	23368520	Connector, 20P
PX01A	23367722	Connector, 13P
PX01B	23902746	Connector, 13P
PX02A	23367721	Connector, 9P
PX02B	23902744	Connector, 9P
⚠S801	23145434	Switch, Power, 2C2P
SA01	23145430	Switch, Push, 1C1P
SA02	23145430	Switch, Push, 1C1P
SA03	23145430	Switch, Push, 1C1P
SA04	23145430	Switch, Push, 1C1P
SV02	23145355	Switch, Slide, 4C2P
⚠V901A	23902067	Socket, CRT, 10P
W201	23250870	Coil, Delay Line, TRF2100
W501	23250950	Coil, 1H-Delay Line, DL711
W661	23351038	Speaker, SPK-1311, 60x120mm, 8 ohm
W662	23351053	Speaker, SPK-1326, 50x50mm, 8 ohm
W663	23351038	Speaker, SPK-1311, 60x120mm, 8 ohm

Location No.	Part No.	Description
W664	23351053	Speaker, SPK-1326, 50x50mm, 8 ohm
W665	23351080	Speaker, SPK-1352, 100x100mm, 6 ohm
W701	23250866	Coil, Delay Line, TRF2096
X401	23153721	Ceramic Resonator, 503kHz, TCR1023
X501	23153979	Crystal, 4.43MHz
X502	23153961	Crystal, 3.58MHz
XA01	23153845	Ceramic Resonator, 4.0MHz, TCR1015
XF01	23153657	Crystal, 13.875MHz
XF02	23153924	Crystal, 6.000MHz
XG01	23153900	Ceramic Resonator, 500kHz, TCR1010
Z101	A5615249	PIF SAW Filter, F1804D
Z102	23107927	Ceramic Video Trap, 5.5MHz, TCF1011
Z105	23107913	Ceramic Video Trap, 6.5MHz, TCF1018
Z661	23107742	Filter, TEM1014
Z662	23107742	Filter, TEM1014
Z663	23107742	Filter, TEM1014
Z664	23107742	Filter, TEM1014
ZF01	23107746	Filter, 3MHz, TEM1010
ZG01	23107948	Ceramic Filter, 6.0MHz, SFE6.0MBF
ZG02	23107855	Ceramic Filter, 5.5MHz, TCF1031
ZG03	23107949	Cermaic Filter, 6.5MHz, SFE6.5MBF
ZG04	23107856	Ceramic Filter, 5.74MHz, TCF1030
ZG06	23107948	Ceramic Filter, 6.0MHz, SFE6.0MBF
ZP81	23144451	Protector, 125V 5A
ZP82	23144450	Protector, 125V 2A
ZV02	23107742	Filter, TEM1014
ZV03	23107742	Filter, TEM1014
ZV04	23107744	Filter, 3MHz, TEM1012
ZV05	23107744	Filter, 3MHz, TEM1012
ZV06	23107742	Filter, TEM1014
ZV07	23107742	Filter, TEM1014
ZV08	23107744	Filter, 3MHz, TEM1012
ZV09	23107744	Filter, 3MHz, TEM1012
ZV10	23107742	Filter, TEM1014
ZV11	23107742	Filter, TEM1014
ZV15	23107744	Filter, 3MHz, TEM1012
ZV16	23107744	Filter, 3MHz, TEM1012
ZV19	23107742	Filter, TEM1014
ZV20	23107742	Filter, TEM1014
ZV21	23107742	Filter, TEM1014
ZV22	23107742	Filter, TEM1014
ZV90	23107744	Filter, 3MHz, TEM1012
ZV91	23107744	Filter, 3MHz, TEM1012
ZZ02	23303055	Ceramic Video Trap, TCF1084
ZZ04	23107849	Ceramic Video Trap, 4.43MHz, TCF1032

PC BOARD ASSEMBLIES

U902A	23369584	Signal Board, PB2724-1 (2927DD)
U902A	23701132	Signal Board, PB3111-1 (3327DD)

Location No.	Part No.	Description
U902B	23369585	Control/AV Board, PB2724-2 (2927DD)
U902B	23701133	Control/AV Board, PB3111-2 (3327DD)
U903A	23369586	Back Terminal Board, PB2725-1 (2927DD)
U903A	23701134	Back Terminal Board, PB3112-1 (3327DD)
U903B	23369587	CRT Drive Board, PB2725-2 (2927DD)
U903B	23701135	CRT Drive Board, PB3112-2 (3327DD)
U903C	23369588	D.S.M Board, PB2725-3 (2927DD)
U903C	23701136	D.S.M Board, PB3112-3 (3327DD)
U903D	23369589	RGB Switch Board, PB2725-4 (2927DD)
U903D	23701137	RGB Switch Board, PB3112-4 (3327DD)
U904	23369581	Power/Def./Audio Board, PB2726 (2927DD)
U904	23701131	Power/Def./Audio Board, PB3113 (3327DD)
Y991Z(U101)	23369728	PIF Board, PB2722
Y993Z(UG01)	23369724	IGR Board, PB2723
Y994Z(UF01)	23369726	Text Board, PB2619

PICTURE TUBE

⚠V901	A5596039	Picture Tube, A68KLF96X(K), SVC (2927DD)
⚠V901	23312479	Picture Tube, A80EBK221X11 (3327DD)

TUNER

H001	23321049	Tuner, VHF/UHF, EG448LX4

ACCESSORIES

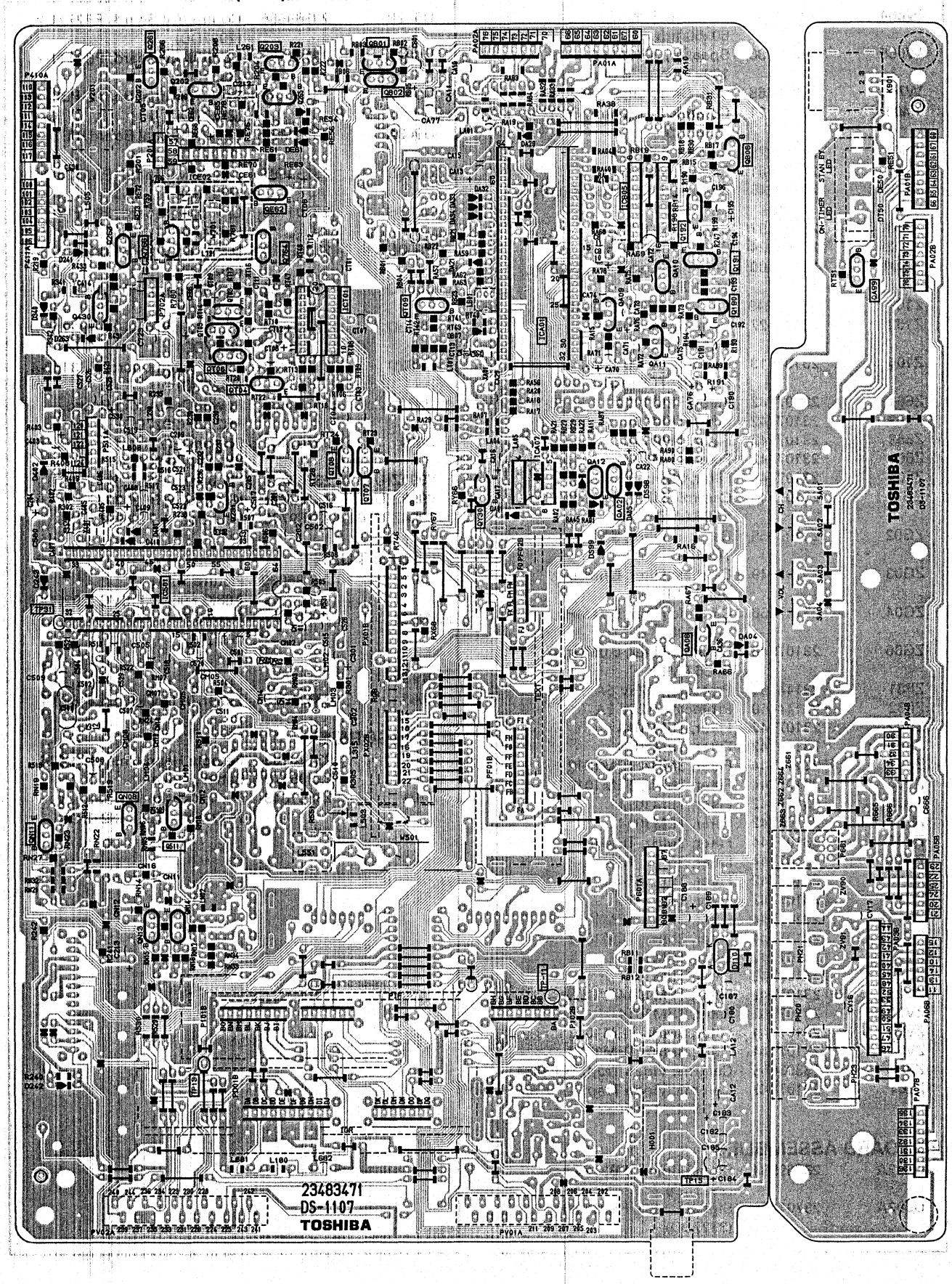
K902	23120100	Remote Hand Unit, CT-9626
AT03	23305170	Battery Cover
Y101	23561648	Owner's Manual, German, 2527DD2927DD/3327DD

SIGNAL BOARD PB2724-1

BOTTOM (FOIL) SIDE

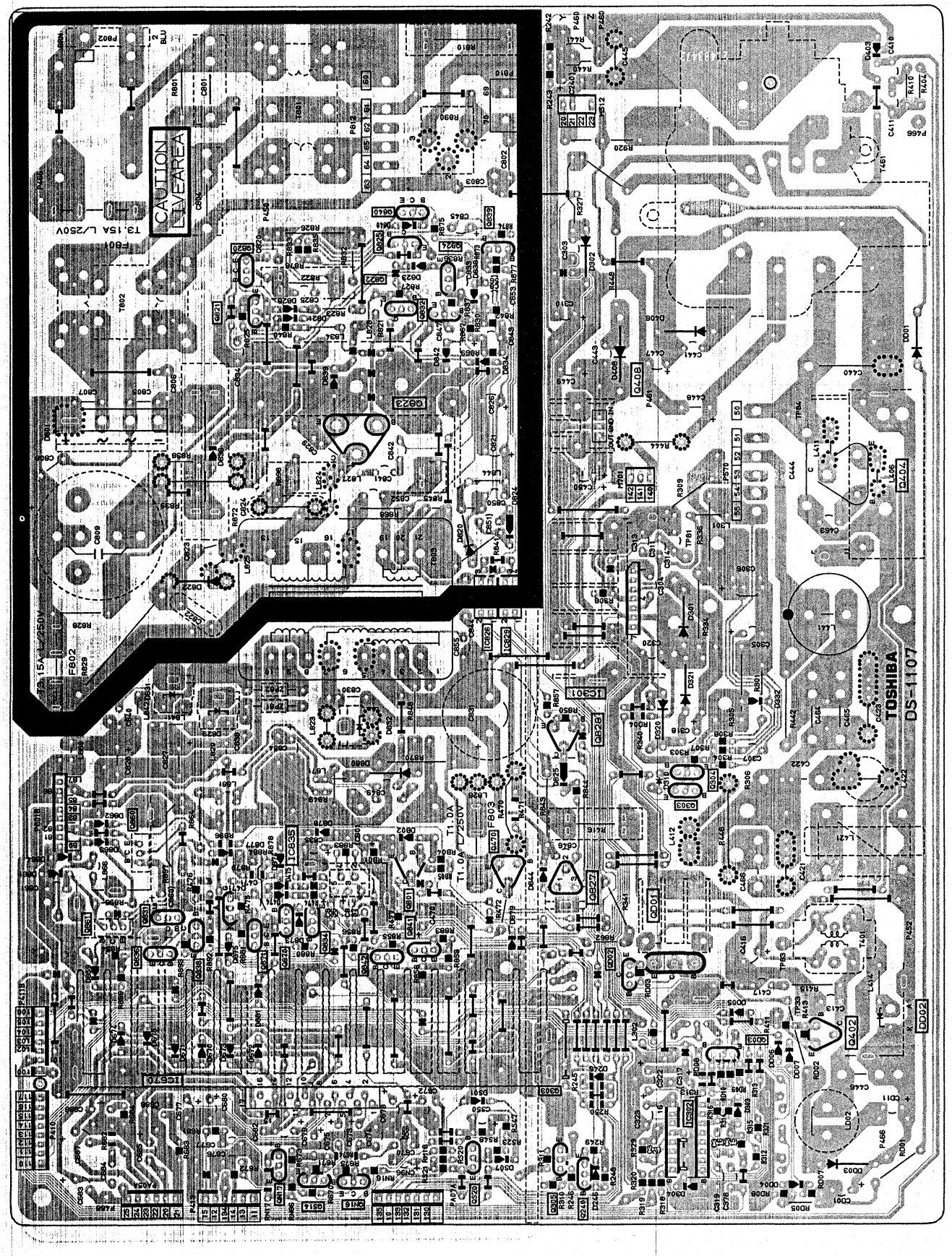
CONT. AV BOARD PB2724-2

BOTTOM (FOIL) SIDE



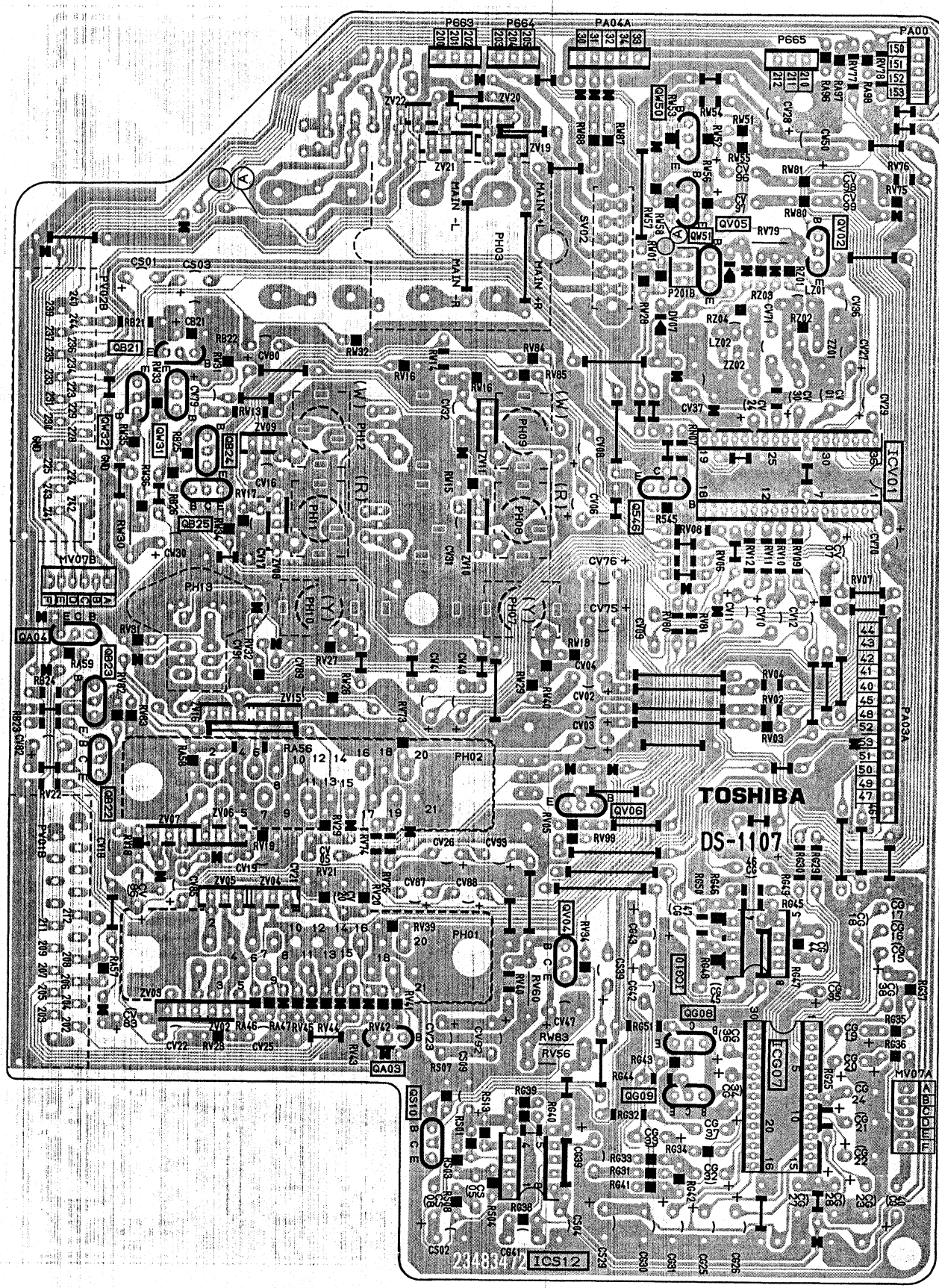
POWER/DEF/AUDIO BOARD PB2726

BOTTOM (FOIL) SIDE



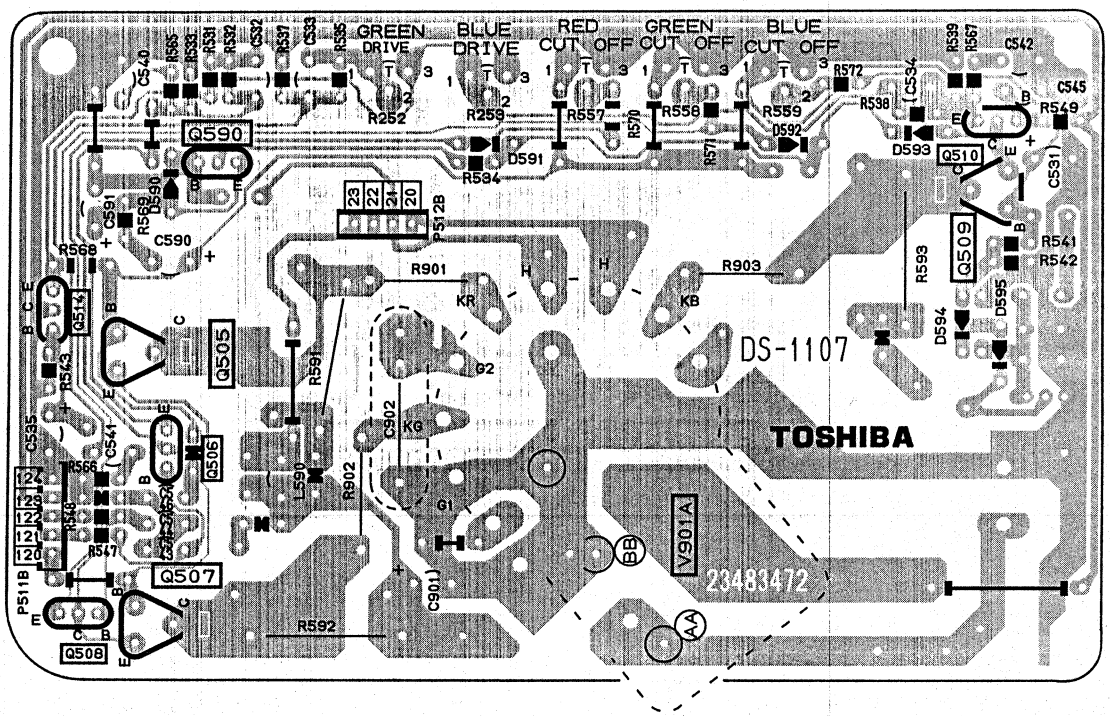
BACK TERMINAL BOARD PB2725-1

BOTTOM (FOIL) SIDE



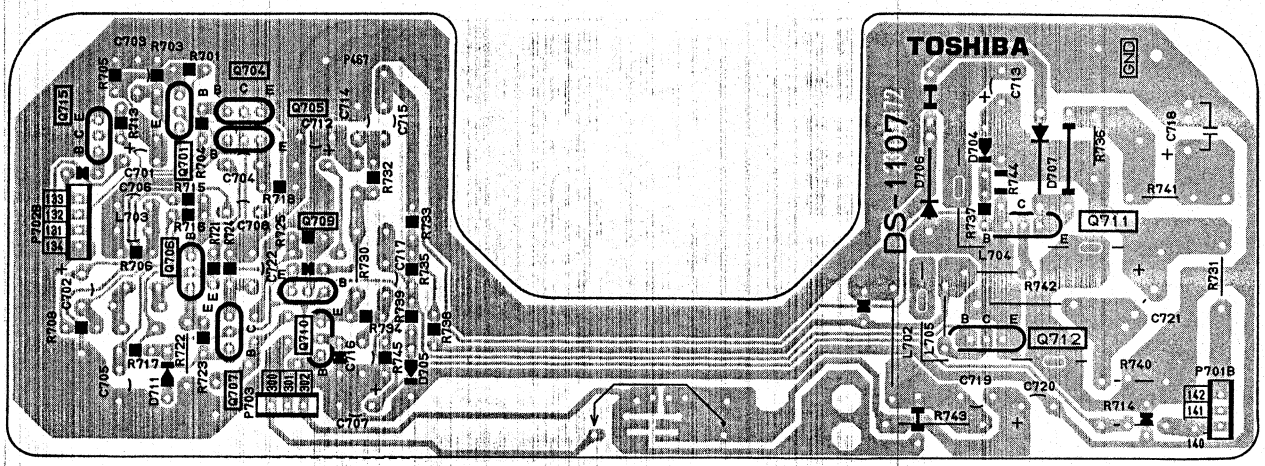
CRT DRIVE BOARD PB2725-2

BOTTOM (FOIL) SIDE



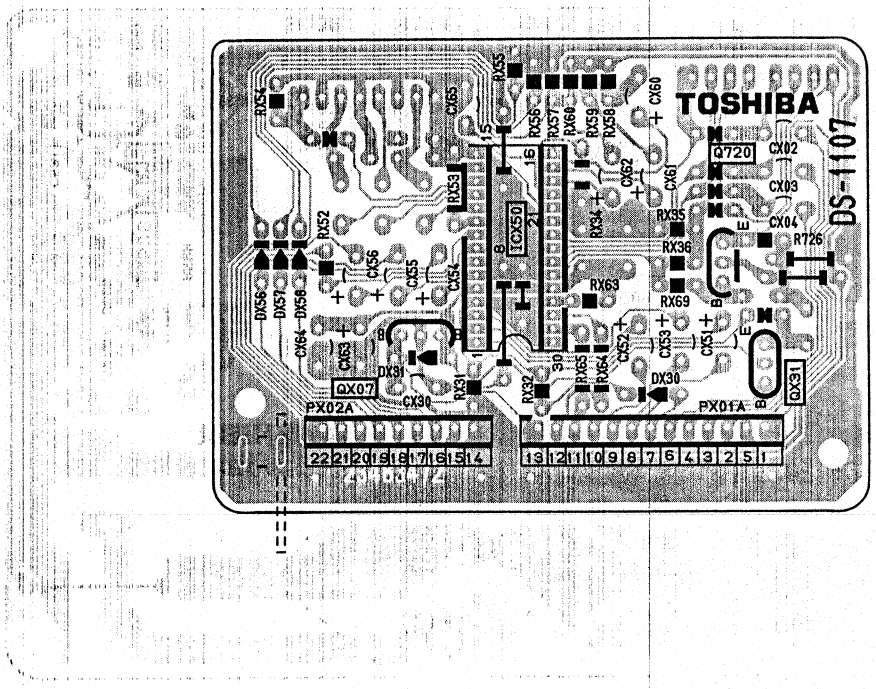
DSM BOARD PB2725-3

BOTTOM (FOIL) SIDE



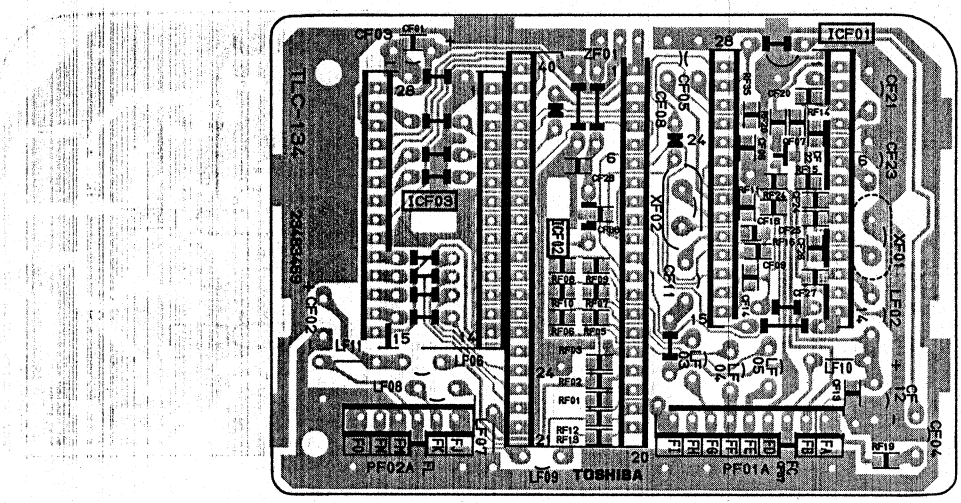
RGB SW BOARD PB2725-4

BOTTOM (FOIL) SIDE



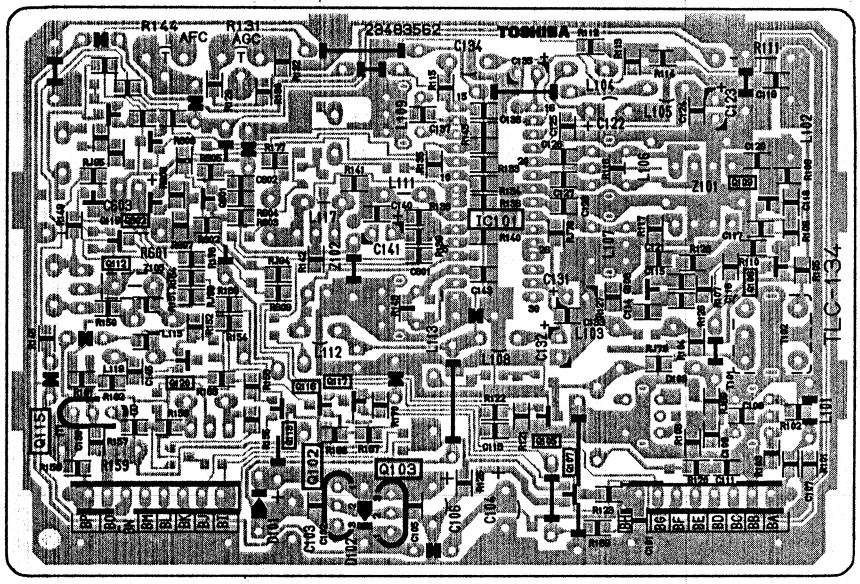
TEXT BOARD PB2619

BOTTOM (FOIL) SIDE



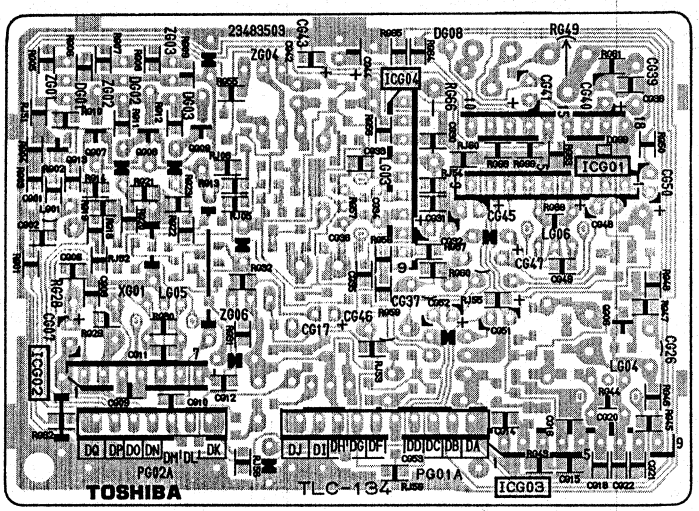
PIF BOARD PB2722

BOTTOM (FOIL) SIDE



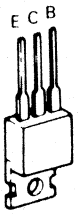
IGR BOARD PB2723

BOTTOM (FOIL) SIDE

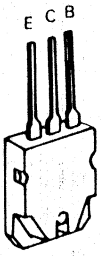


TERMINAL VIEW OF TRANSISTORS

① 2SC1569

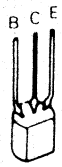


② 2SC3927(A)

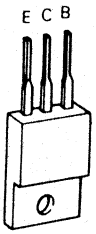


③ 2SC2580-C
2SC2655

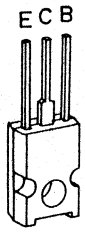
④ 2SA933S
2SA1015-Y
2SA1320-Y
2SC752GTM
2SC1685-Q
2SC1740S
2SC1815-N
2SC1959-Y
2SC2120-Y
2SC2878-A



⑤ 2SB1186A
2SC3852
2SD2253

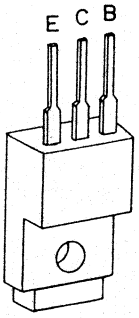


⑥ 2SC3619



⑦ RN1203
RN1204
RN1206
RN2004

⑧ 2SB1186A
2SD1763A



SCHEMATIC DIAGRAM MODEL 2927DD : 3327DD

NOTE: The parts identified by the international hazard symbols are critical for safety. Replace only with part number specified.

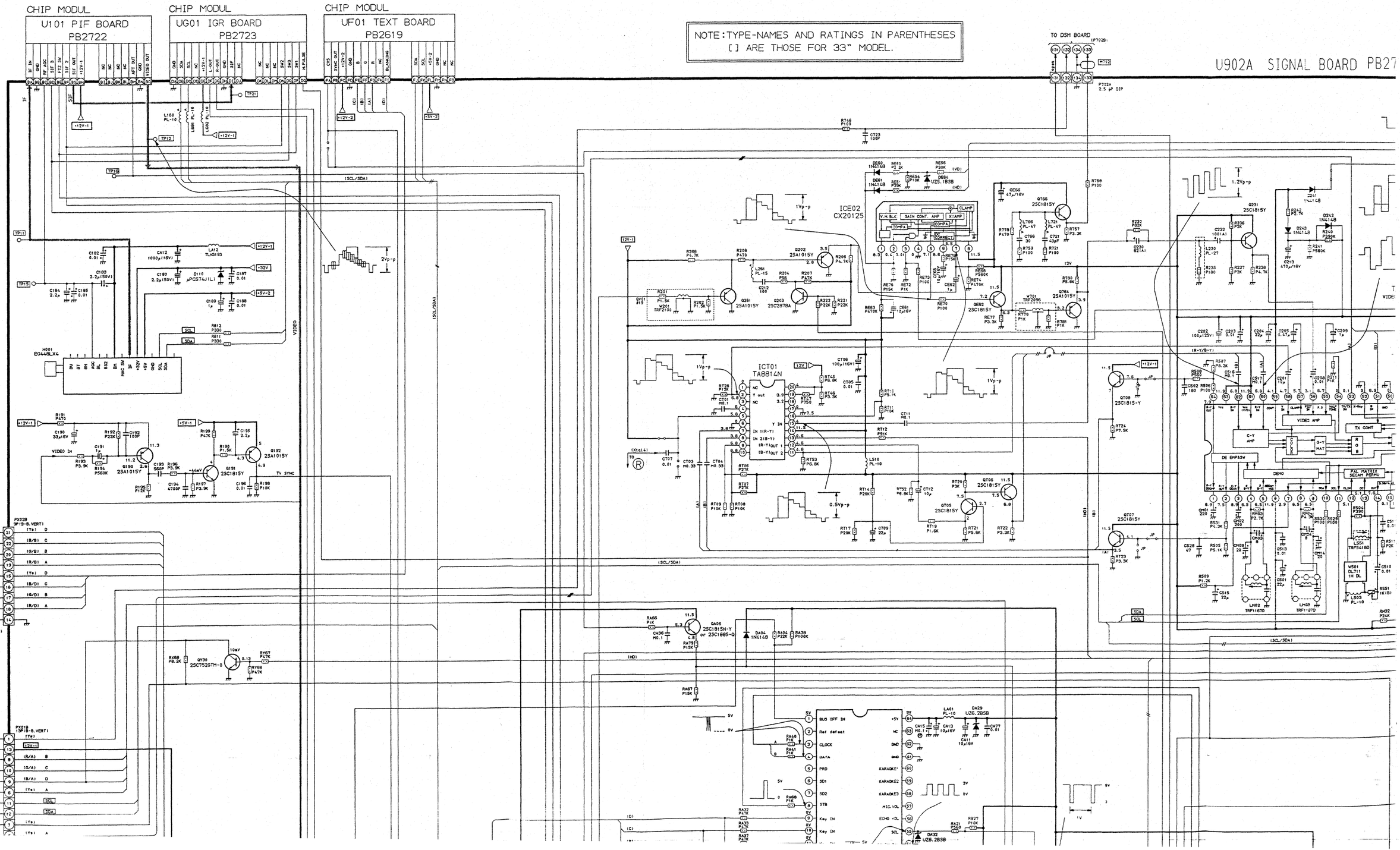
OBSERVATION OF VOLTAGES AND WAVEFORMS

1. Voltages read with VTVM from point shown to chassis ground, line voltage 220 volts, colour bar signal. Voltages reading may vary ±20%.
2. All waveforms are taken using a wide band oscilloscope and a low capacity probe.
3. Waveforms are taken using a standard colour bar signal.
4. Make sure that CONTRAST and COLOUR controls are in mid position and BRIGHTNESS control is almost in maximum position. Set other controls for best picture.

NOTES:

1. D.C. resistance value of a principal transformer is shown gram. These are measured for separated from the circuit.
2. The circuits are subject to change without notice.
3. ● : Solder links.

NOTE: TYPE-NAMES AND RATINGS IN PARENTHESES [ ] ARE THOSE FOR 33" MODEL.



ES:

).C. resistance value of a principal transformer is shown in this schematic dia-
ram. These are measured for separated from the circuit.
he circuits are subject to change without notice.
: Solder links.

EXPRESSION

VALUE OF RESISTOR, CAPACITOR and INDUCTOR

1. Resistance is shown in ohm, k=1,000, M=1,000,000
2. Unless other wise noted in schematic, all capacitor values less than 1 are expressed in μF and the values more than 1 in pF.
3. Unless otherwise noted in schematic, all inductor values more than 1 are expressed in μH, and the values less than 1 in H.

RESISTOR

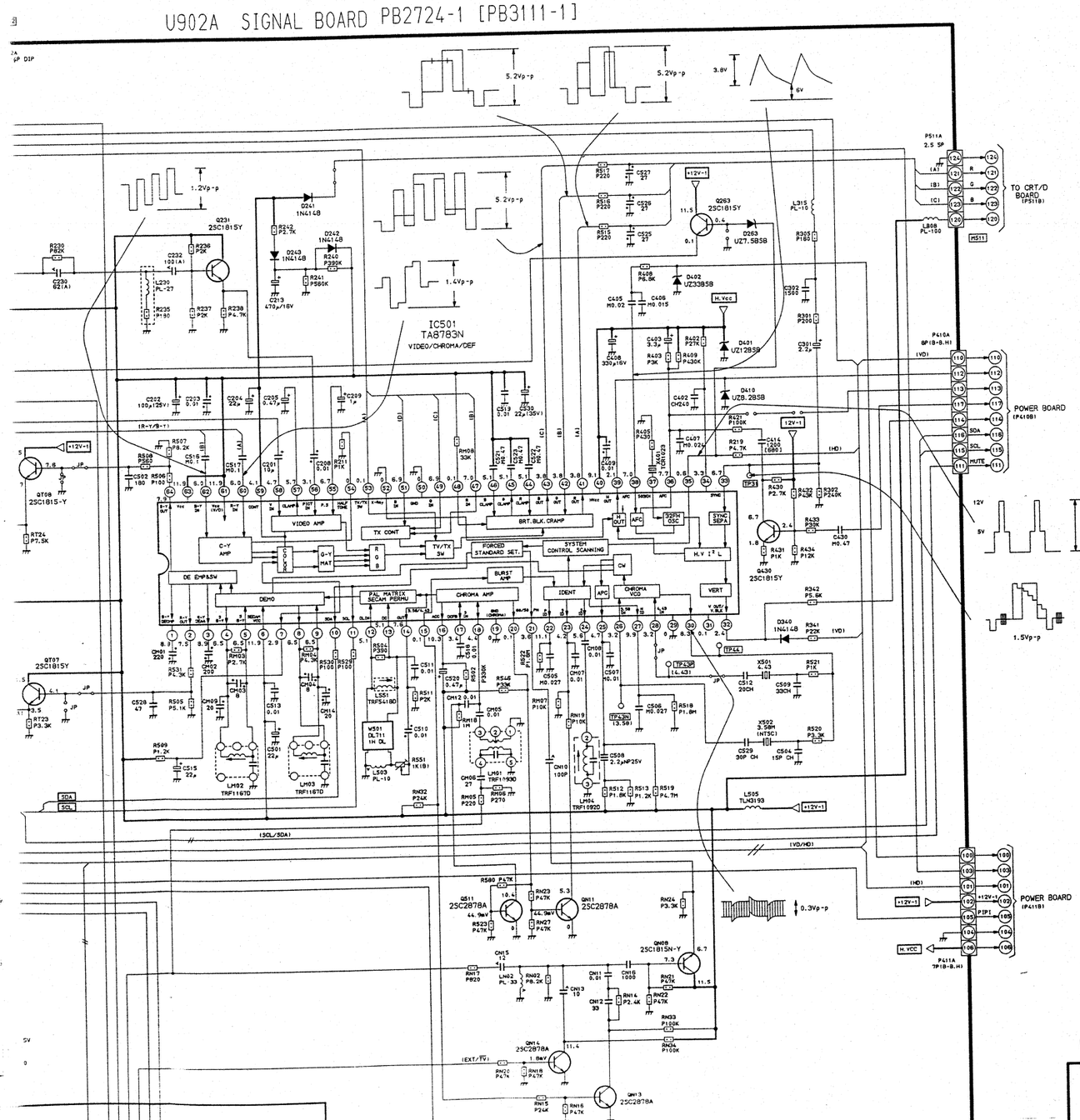
Table 1

Type	Mark
Carbon Composition	S
Oxide Metal Film	R
Insulated Carbon Film	P
Cement	W
Variable Resistor	
Fusible Resistor	FR

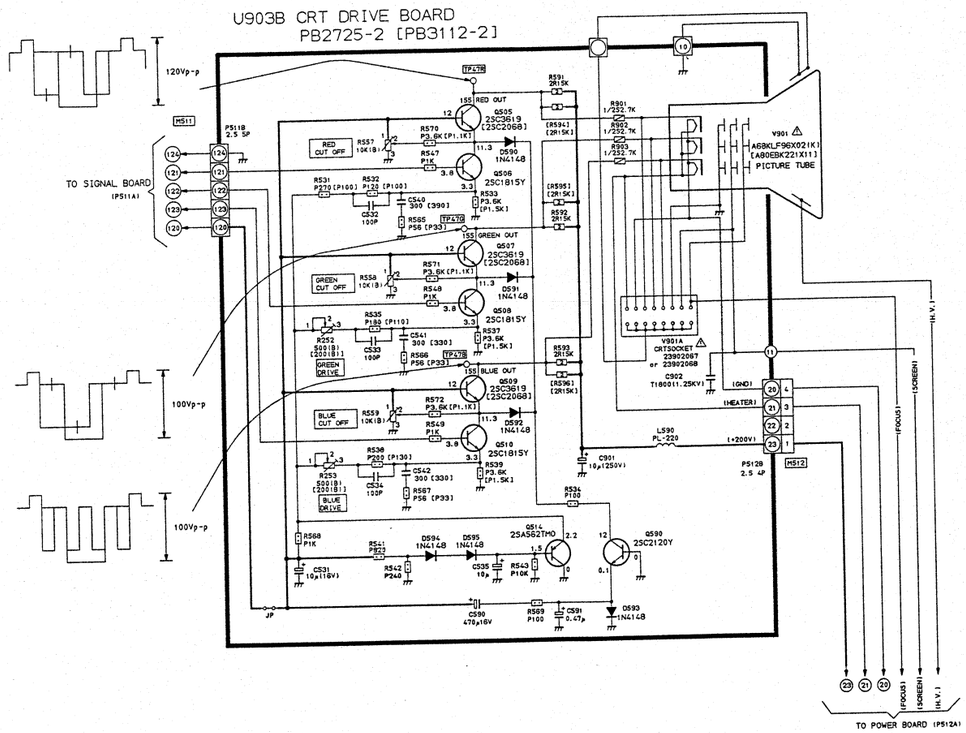
Table 2

Watt	Mark	Watt	Mark
1/6 W		3 W	3
1/8 W		5 W	5
1/4 W		10 W	10
1/2 W		15 W	15
1 W	1	20 W	20
2 W	2	25 W	25

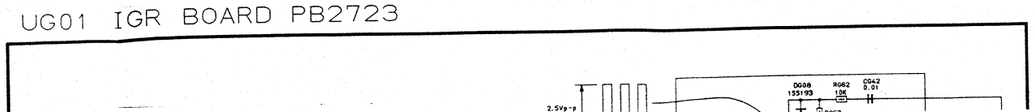
U902A SIGNAL BOARD PB2724-1 [PB3111-1]



U903B CRT DRIVE BOARD
PB2725-2 [PB3112-2]



UG01 IGR BOARD PB2723



U902B FRONT CONT. AV BOARD
PB2724-2 [PB3111-2]

TO RGB BOARD

TO BACK TER BOARD

TO BACK TER BOARD (PV01B)

TO MICOM

TO POWER BOARD

TO BACK TER BOARD (PA01B)

TO POWER BOARD (PA06A)

TO POWER BOARD (PA05A)

TO BACK TER BOARD (PA04A)

TO BACK TERM. BOARD (PA03A)

TO SIGNAL BOARD (P702A)

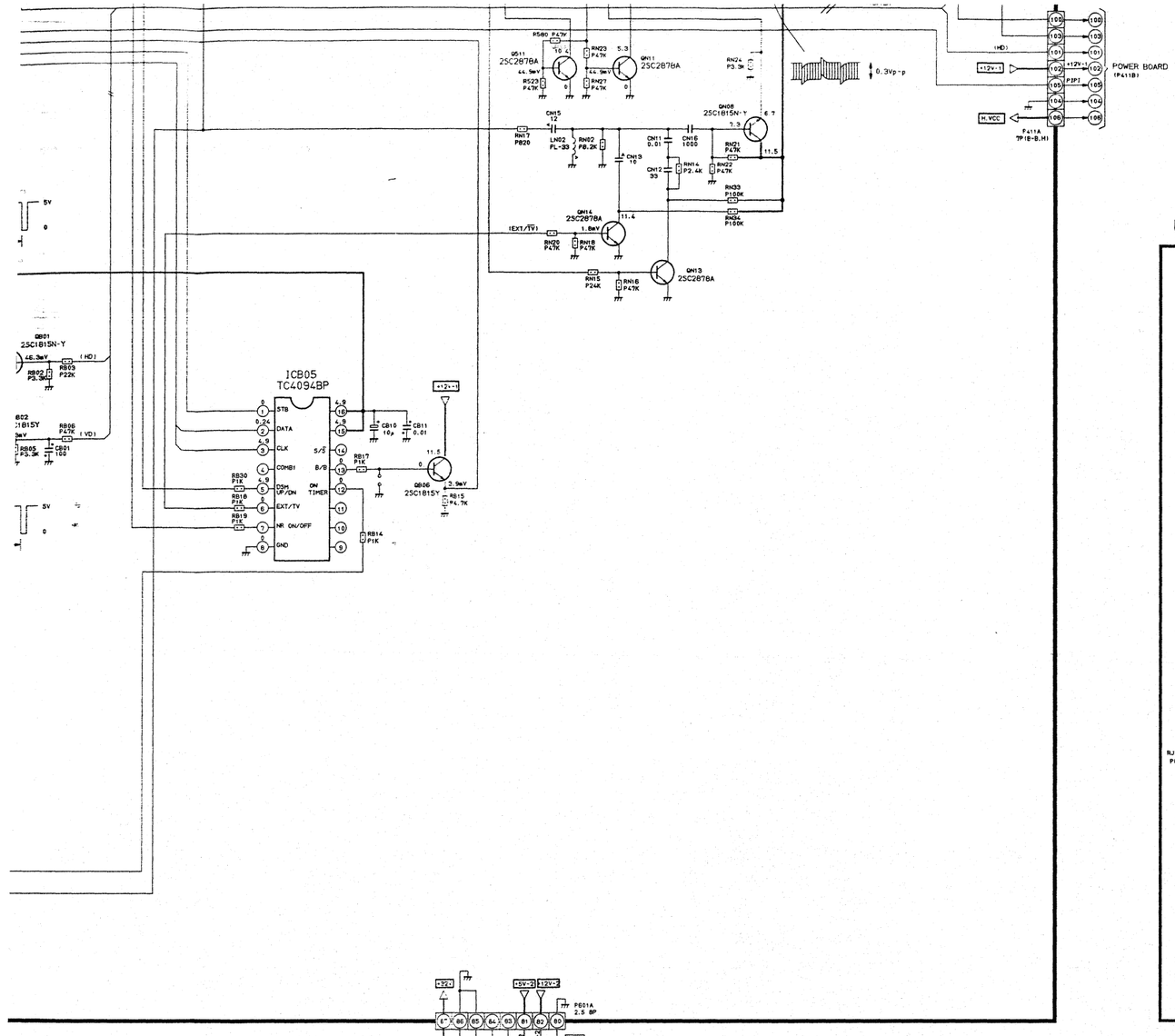
TO POWER (P701A)

ICA01
CXP80424-144S
MICROCOMPUTER

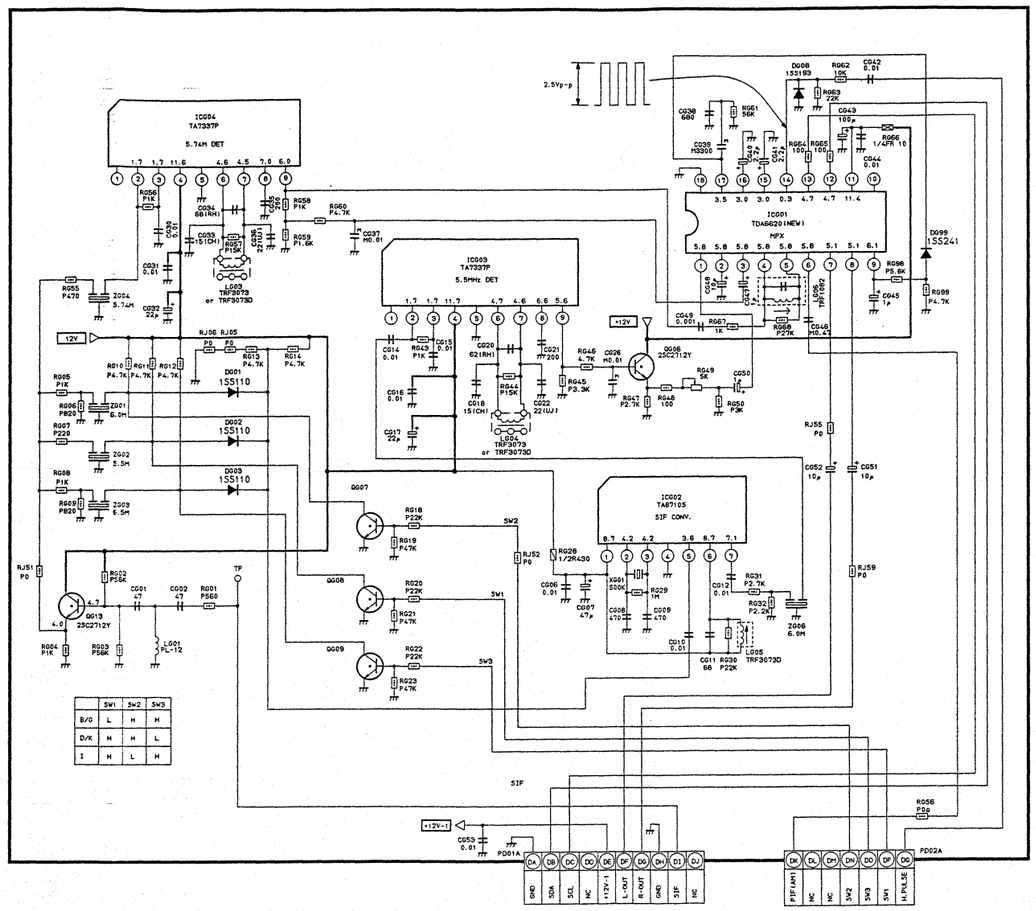
ICA07
μPD6254CX

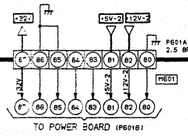
ICB05
TC4094BP

C.OUT

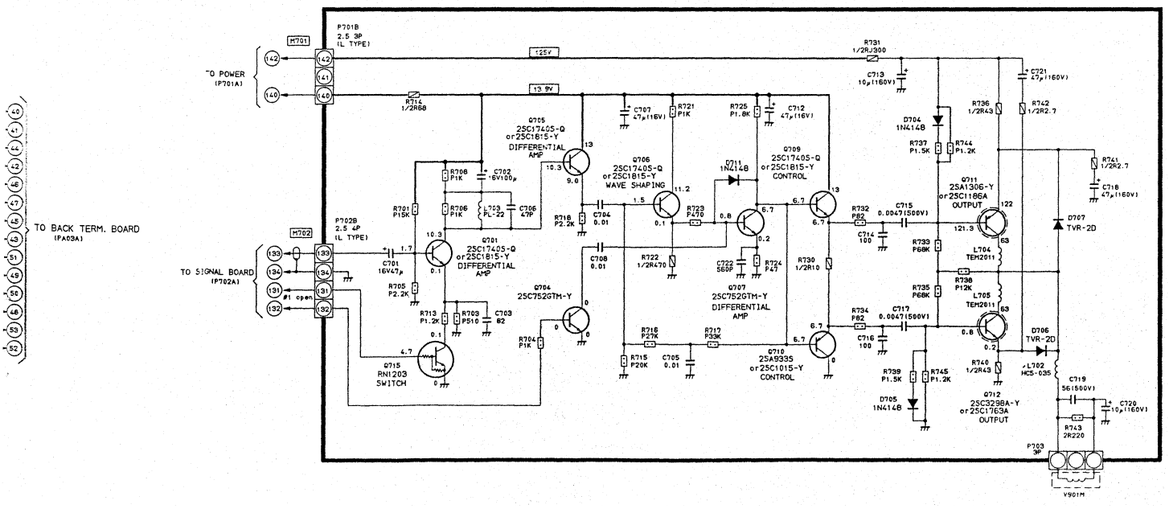


UG01 IGR BOARD PB2723



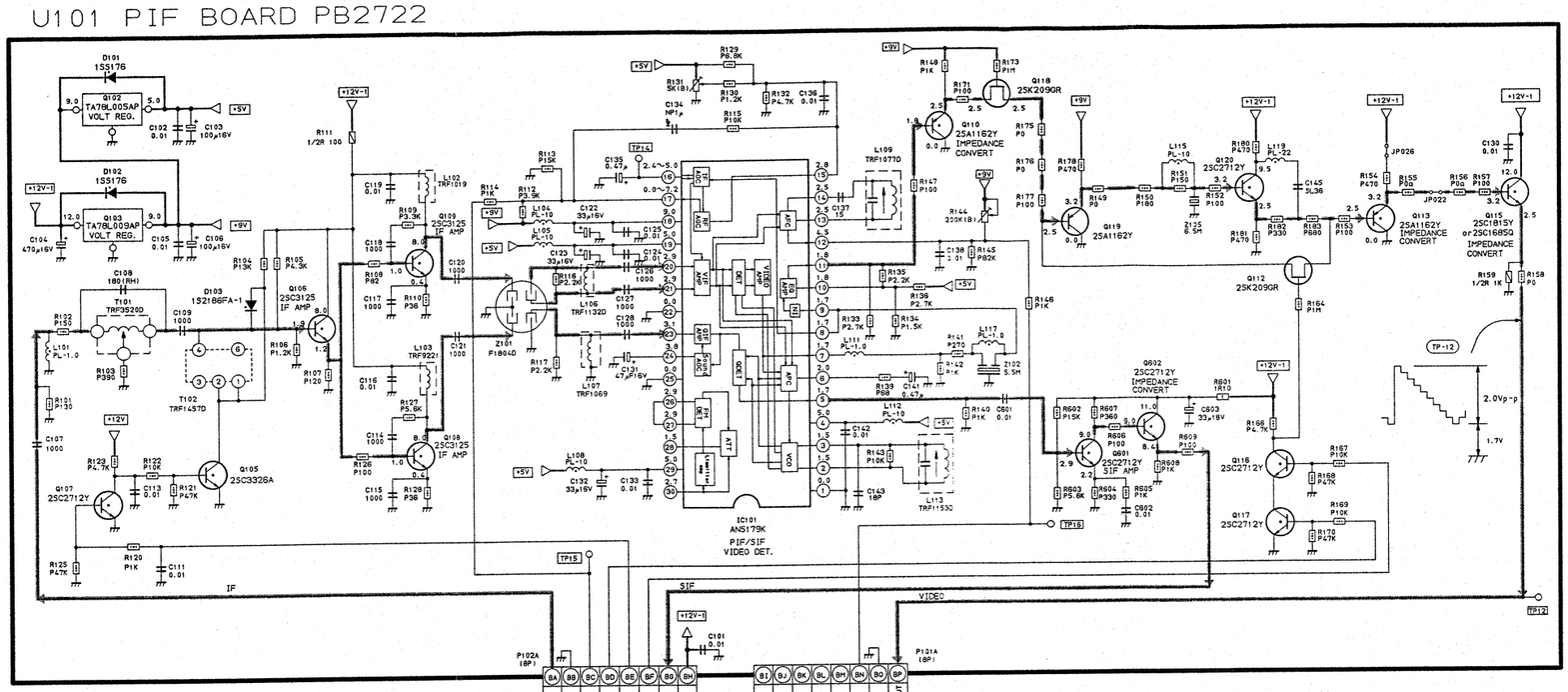


U903C DSM BOARD PB2725-3 [PB3112-3]

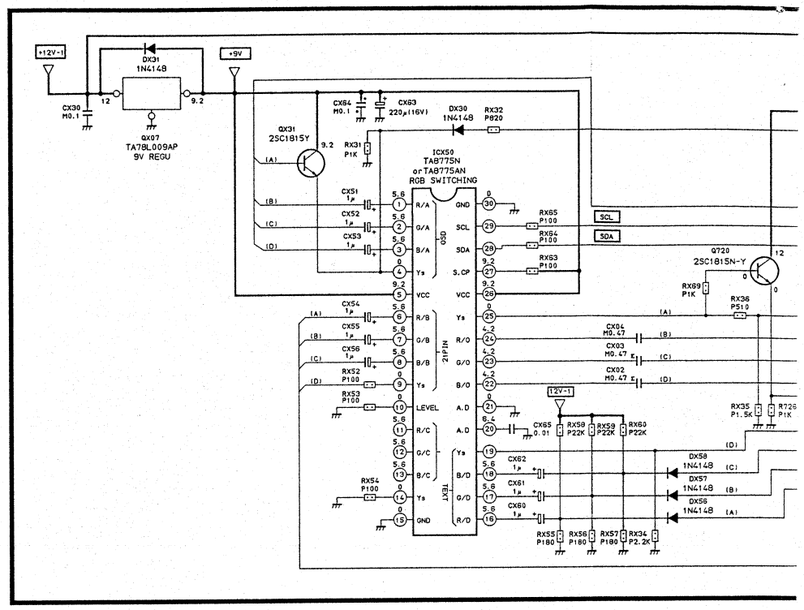


SCHEMATIC DIAGRAM MODEL 2927DD : 3327DD

U101 PIF BOARD PB2722

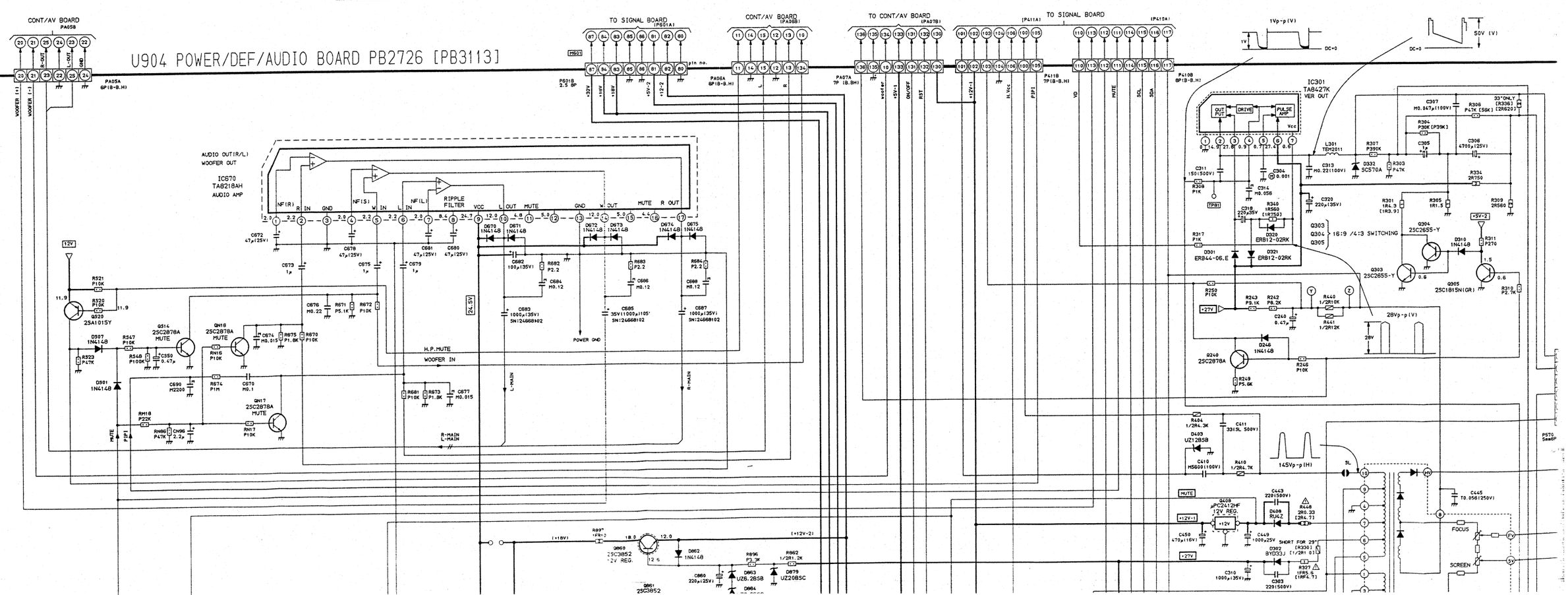


U903D RGB SW. BOARD PB2725-4 [PB3112-4]

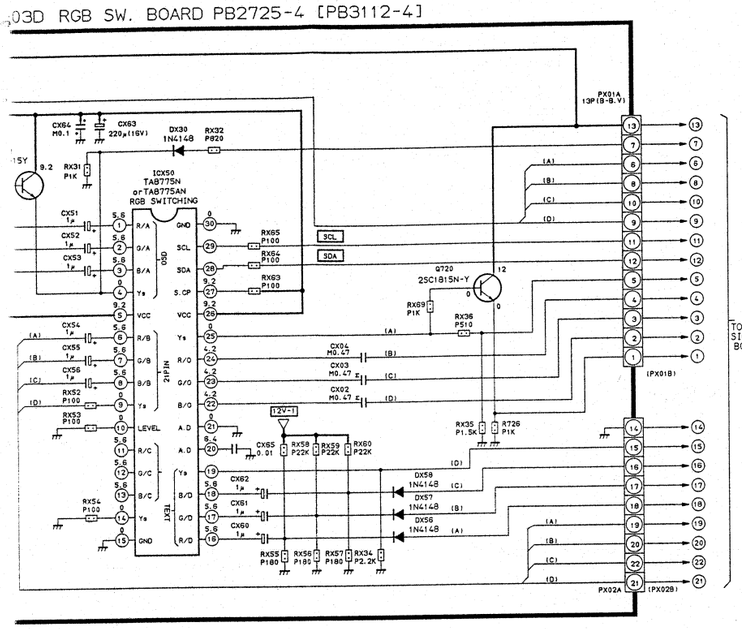


NOTE:TYPE-NAMES AND RATINGS IN PARENTHESES
[] ARE THOSE FOR 33" MODEL.

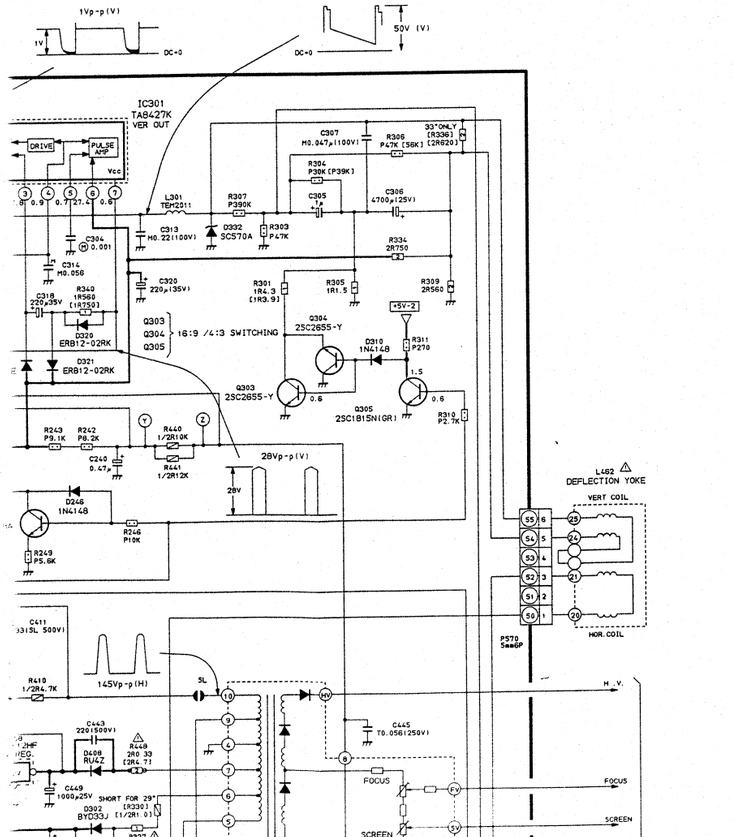
U904 POWER/DEF/AUDIO BOARD PB2726 [PB3113]



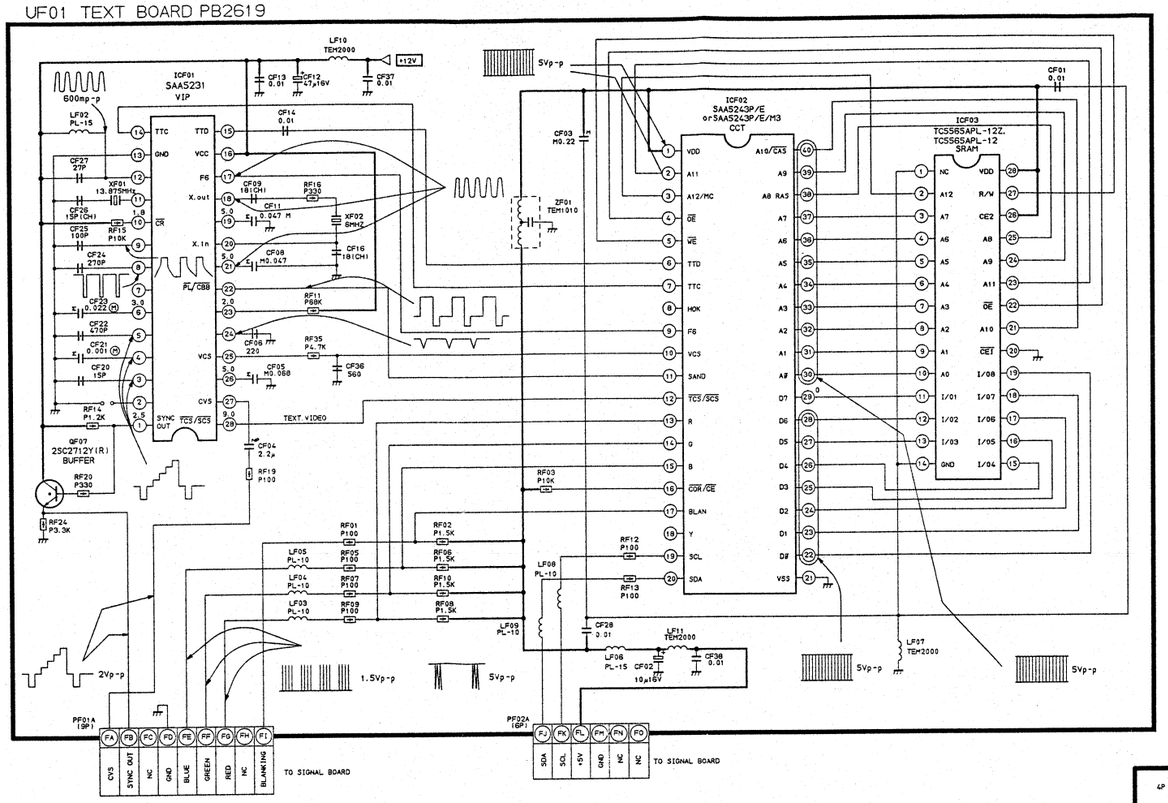
03D RGB SW. BOARD PB2725-4 [PB3112-4]



NOTE:TYPE-NAMES AND RATINGS IN PARENTHESES
[ ] ARE THOSE FOR 33" MODEL.



UF01 TEXT BOARD PB2619



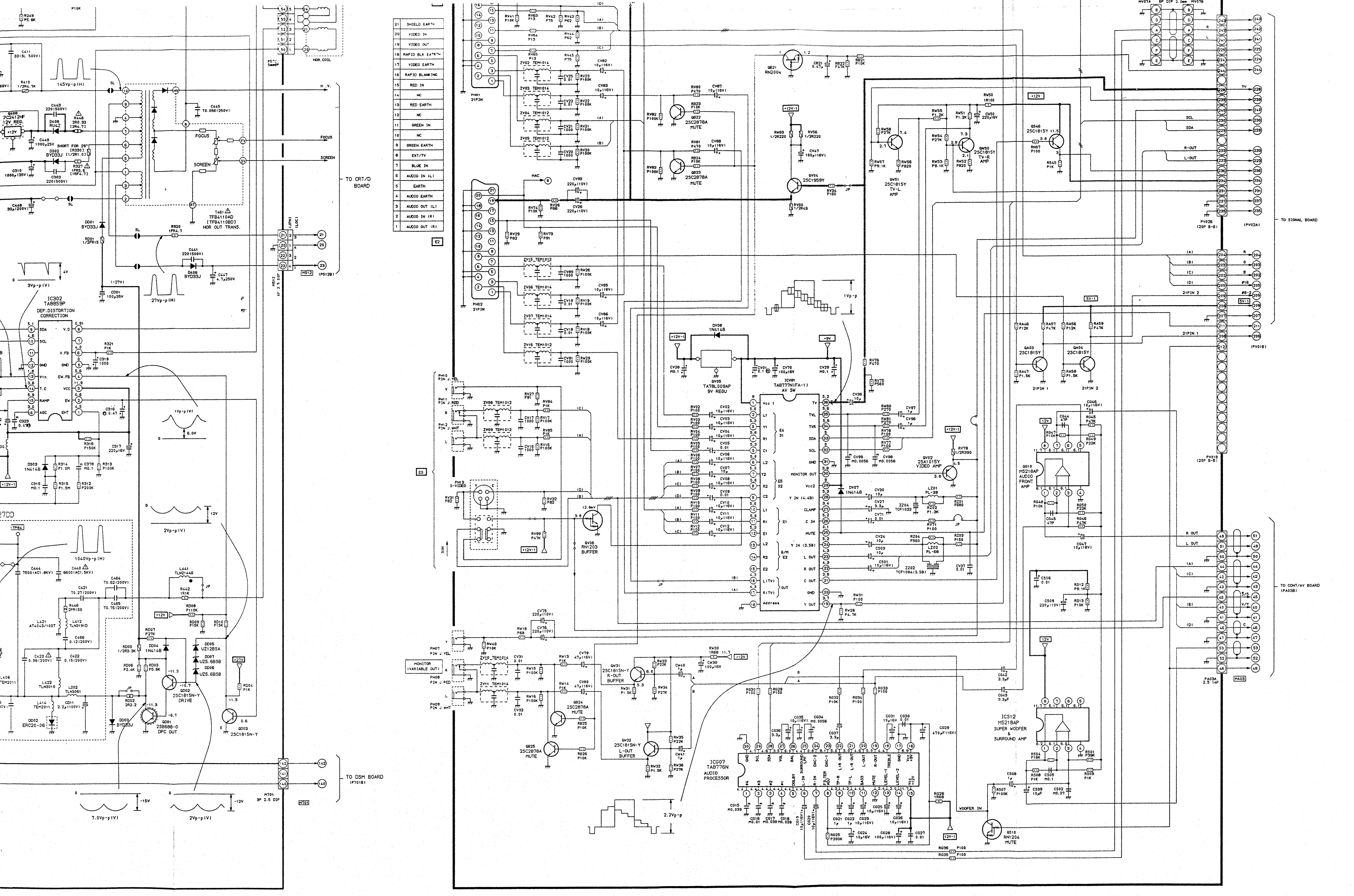
U903A BACK TERMNAL BOARD PB2725-1 [PB3112-1]

21	SHIELD EARTH
20	VIDEO IN
19	VIDEO OUT
18	RAPID BLK EARTH
17	VIDEO EARTH
16	RAPID BLANKING
15	RED IN
14	NC
13	RED EARTH
12	NC
11	GREEN IN
10	NC
9	GREEN EARTH
8	EXT/TV
7	BLUE IN
6	AUDIO IN (L)

LIVE AREA

[FOR 3327DD]

FOR 2927DD


T461 TFB4110AD [TFB4110BD] HOR OUT TRANS.
H.V.
FOCUS
SCREEN
HOR.COIL
TO CRT/D BOARD
145Vp-p(H)
27Vp-p(H)
3Vp-p(V)
1Vp-p(V)
2Vp-p(V)
1040Vp-p(H)
7.0Vp-p(V)
IC302 TA8859P DEF.DISTORTION CORRECTION
Q408 PC2412HF 12V REG.
QD02 2SC1815N-Y DRIVE
QD01 2SB688-O DPC OUT
QD03 2SC1815N-Y
TO DSM BOARD (P701B)
M701 3P 2.5 DIP
PH01 21PIN
PH02 21PIN
PH10 PIN J.YEL
PH11 PIN J.RED
PH12 PIN J.WHT
PH13 S-VIDEO
PH07 PIN J.YEL
PH08 PIN J.RED
PH09 PIN J.WHT
MONITOR (VARIABLE OUT)
QV06 RN1203 BUFFER
QV05 TA78L009AP 9V REGU
ICV01 TA8777N(FA-1) AV SW
QB22 2SC2878A MUTE
QB23 2SC2878A MUTE
QB21 RN2004
QV04 2SC1959Y
QW51 2SC1815Y TV-L AMP
QW50 2SC1815Y TV-R AMP
Q546 2SC1815Y
QV02 2SA1015Y VIDEO AMP
QW31 2SC1815N-Y R-OUT BUFFER
QW32 2SC1815N-Y L-OUT BUFFER
QB24 2SC2878A MUTE
QB25 2SC2878A MUTE
ICG07 TA8776N AUDIO PROCESSOR
QG10 M5218AP AUDIO FRONT AMP
ICS12 M5218AP SUPER WOOFER & SURROUND AMP
QS10 RN1204 MUTE
QA03 2SC1815Y
QA04 2SC1815Y
MV07A 6P DIP 2.0mm MV07B
PV02B (20P B-B)
PV01B (20P B-B)
TO SIGNAL BOARD
PA03A 2.5 14P
TO CONT/AV BOARD (PA03B)
1Vp-p
2.2Vp-p

21	SHIELD EARTH
20	VIDEO IN
19	VIDEO OUT
18	RAPID BLK EARTH
17	VIDEO EARTH
16	RAPID BLANKING
15	RED IN
14	NC
13	RED EARTH
12	NC
11	GREEN IN
10	NC
9	GREEN EARTH
8	EXT/TV
7	BLUE IN
6	AUDIO IN (L)
5	EARTH
4	AUDIO EARTH
3	AUDIO OUT (L)
2	AUDIO IN (R)
1	AUDIO OUT (R)